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***Please perform an interference search on SEQ ID NO 1 \*838 nucleotides), 3 (145 nucleotides) and 4 (2170 nucleotides)***

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Type of Search

NA Sequence: # \_\_\_\_\_  
AA Sequence :# \_\_\_\_\_  
Structure: # \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

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Vendors and cost where applicable

STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
QUESTEL/ORBIT: \_\_\_\_\_  
LEXIS/NEXIS: \_\_\_\_\_  
SEQUENCE SYSTEM: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other(Specify): \_\_\_\_\_

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: December 20, 2004, 13:34:51 ; Search time 208.111 Seconds  
(without alignments)  
7411.504 Million cell updates/sec

Title: US-09-977-066A-4  
Perfect score: 2170  
Sequence: 1 CTCGAGTGAATAATAAATG.....GAGGGCCCTCCTCCAAGGT 2170

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.\*

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3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PTUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfiles.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
c 1	2050	94.5	229354	4	US-09-765-400-64
c 2	2050	94.5	229354	4	US-09-705-400-64
c 3	1986.4	91.5	13254	1	US-08-276-852-156
c 4	1986.4	91.5	13254	1	US-08-276-852-170
c 5	1986.4	91.5	13254	1	US-08-899-575-156
c 6	1986.4	91.5	13254	1	US-08-899-575-170
c 7	1986.4	91.5	13254	1	US-08-899-575-156
c 8	1986.4	91.5	13254	1	US-08-899-575-170
c 9	1986.4	91.5	13254	5	PCT-US95-08743-156
c 10	1986.4	91.5	13254	5	PCT-US95-08743-170
11	1620.4	74.7	5215	4	US-09-173-053-8
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14	1583.4	73.0	4928	3	US-08-818-562-1
15	1583.4	73.0	4928	3	US-08-628-445-1
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18	1576.6	72.7	5111	4	US-09-628-730-55
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24	1576.4	72.6	5459	4	US-09-721-480-4
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28 1570 72.4 4328 3 US-09-132-808-1 Sequence 1, Appli  
29 1570 72.4 4328 3 US-08-910-647-2 Sequence 2, Appli  
30 1570 72.4 4328 4 US-09-620-925-2 Sequence 2, Appli  
31 1570 72.4 4328 4 US-09-620-260-1 Sequence 1, Appli  
32 1570 72.4 4328 4 US-09-620-259-1 Sequence 1, Appli  
33 1570 72.4 4328 3 US-08-910-647-4 Sequence 4, Appli  
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37 1570 72.4 7015 4 US-09-770-315-1 Sequence 1, Appli  
38 1558 71.8 15538 4 US-09-554-337-1 Sequence 43, Appli  
39 1529.4 70.5 3547 4 US-09-340-798A-43 Sequence 1, Appli  
40 1529 70.5 3610 4 US-09-194-949A-1 Sequence 1, Appli  
41 1529 70.5 4261 4 US-09-194-949A-25 Sequence 25, Appli  
42 1528 70.4 5899 4 US-09-173-053-2 Sequence 2, Appli  
43 1527.8 70.4 4864 4 US-09-340-798A-1 Sequence 1, Appli  
44 1518.6 70.0 5676 2 US-08-663-998-3 Sequence 3, Appli  
45 1518.6 70.0 5682 2 US-08-663-998-4 Sequence 4, Appli

## ALIGNMENTS

RESULT 1  
US-09-765-400-64/c  
; Sequence 64, Application US/09765400  
; Patent No. 6691568  
; GENERAL INFORMATION:  
; APPLICANT: Ghazal, Peter  
; APPLICANT: Huang, Huang  
; TITLE OF INVENTION: Generation of Human Cytomegalovirus Yeast Artificial Chromosome  
; FILE REFERENCE: 98,299  
; CURRENT APPLICATION NUMBER: US/09/765,400  
; CURRENT FILING DATE: 2000-11-03  
; NUMBER OF SEQ ID NOS: 64  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 64  
; LENGTH: 229354  
; TYPE: DNA  
; ORGANISM: Human cytomegalovirus;  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Human cytomegalovirus strain AD169 (GenBank X17403.1)  
US-09-765-400-64

Query Match 94.5% Score 2050; DB 4; Length 229354;  
Best Local Similarity 97.9%; Pred No. 0;  
Matches 2129; Conservative 0; Mismatches 40; Indels 5; Gaps 5;  
Qy 1 CTCAGTGAATAATAAATGTTGTCGGAATACGCGTTTGTGAGATTCTGTGCGC 60  
Db 174873 CTCAGTGAATAATAAATGTTGTCGGAATACGCGTTTGTGAGATTCTGTGCGC 174814  
Qy 61 GACTAAATTCATGTCGCGCATAGTGTGTTATTCGCGCATAGAGATGGCGATTTGGAA 120  
Db 174813 GACTAAATTCATGTCGCGCATAGTGTGTTATTCGCGCATAGAGATGGCGATTTGGAA 174754  
Qy 121 AAATCGATATTTGAAATATGGCATATTTGAAATATGTCGCGATGTTGTTCTGTGTAAC 180  
Db 174753 AAATCGATATTTGAAATATGGCATATTTGAAATATGTCGCGATGTTGTTCTGTGTAAC 174694  
Qy 181 TGATATCGCCATTTTCCAAAAGTGATTTTGGGCATACGCGATATCTGGCGATACGGCT 240  
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Qy 241 TATATCGTTTACGGGGGATGGCGATAGACGACTTTTGGCGATCTGGGGCATTTCTGTGTGTC 300  
Db 174633 TATATCGTTTACGGGGGATGGCGATAGACGACTTTTGGCGATCTGGGGCATTTCTGTGTGTC 174574  
Qy 301 GCAAAATTCGAGTTTCGATATAGGTGACAGCATATAGGCTATATCCCGCATAGAGG 360  
Db 174573 GCAAAATTCGAGTTTCGATATAGGTGACAGCATATAGGCTATATCCCGCATAGAGG 174514

QY 361 CGACATCAAGCTGGACATGCGCAATGCATATCGATCTATACATTTGAATCAATATTGGCA 420  
Db 174513 CGACATCAAGCTGGACATGCGCAATGCATATCGATCTATACATTTGAATCAATATTGGCC 174454  
QY 421 ATTAGCCATATTAGTCAATTTGTTATATAGCATAAATAAATCAATATTGGCTATTGGCCATTGCA 480  
Db 174453 ATTAGCCATATTATTCTTTGTTATATAGCATAAATAAATCAATATTGGCTATTGGCCATTGCA 174394  
QY 481 TAGCTGTGATCTATATCAATAATATGTATCAATTTATTTAGGCTCATGTCATATGACCGCC 540  
Db 174393 TAGCTGTGATCCATATCAATAATATGTATCAATTTATTTAGGCTCATGTCATATGACCGCC 174334  
QY 541 ATGTTGACATTTGATTTAGTCAATTTATATAGTAAATCAATTTAGGCTCATGTTCA 600  
Db 174333 ATGTTGACATTTGATTTAGTCAATTTATATAGTAAATCAATTTAGGCTCATGTTCA 174274  
QY 601 TAGCCATATATGAGGTTCCGCGTTACATAACTTTACGTTAAATGGCCCGCTCG-TGACC 659  
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QY 660 GCCAACACGCCCGCCCATTTGACGTCAATTAATGACGTATGTTCCCATAGTAAACGCCAAT 719  
Db 174213 GCCAACACGCCCGCCCATTTGACGTCAATTAATGACGTATGTTCCCATAGTAAACGCCAAT 174154  
QY 720 AGGACTTTTCCATTTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCCACTTTGGCAGT 779  
Db 174153 AGGACTTTTCCATTTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCCACTTTGGCAGT 174094  
QY 780 ACATCAAGTGATCATATATGCAAGTTCGCGCCCGCTTATGACGTCAATGACGGTAAATGGC 839  
Db 174093 ACATCAAGTGATCATATATGCAAGTTCGCGCCCGCTTATGACGTCAATGACGGTAAATGGC 174035  
QY 840 CGCCTGGCATTTATCCGACATGACCTTACGGGACTTTCCCTACTTTGGCAGTACATCT 899  
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QY 1200 ACCGATCCAGCTCCGCGCCCGGGAACGGTGCATTTGGAACGGGATTTCCCGTGGCAAGA 1259  
Db 173674 ACCGATCCAGCTCCGCGCCCGGGAACGGTGCATTTGGAACGGGATTTCCCGTGGCAAGA 173615  
QY 1260 GTGACATAAGTACCGCTTATAGCTCTATAGGACACCCCTTTGGC-TCTTAGCATGCT 1318  
Db 173614 GTGACATAAGTACCGCTTATAGCTCTATAGGACACCCCTTTGGCTTCTTAGCATGCT 173555  
QY 1319 ATACTGTTTTTGGCTTGGGCTTATACACCCCGC-TCCCTTATGCTATAGGTGATGTTAT 1377  
Db 173554 ATACTGTTTTTGGCTTGGGCTTATACACCCCGCTTCTCAITTTATAGGTGATGTTAT 173495  
QY 1378 AGCTTAGCCTATAGGTGTTGGGTTATTGACCATTTATGACCACTCCCTTATGGTACGAT 1437  
Db 173494 AGCTTAGCCTATAGGTGTTGGGTTATTGACCATTTATGACCACTCCCTTATGGTACGAT 173435

QY 1438 ACTTTCCATTACTTAATCCATAAATCGCTCTTTGGCACAACATATCTCTATTGGCTATATG 1497  
Db 173434 ACTTTCCATTACTTAATCCATAAATCGCTCTTTGGCACAACATCTCTTTATTGGCTATATG 173375  
QY 1498 CCAATCTCTGCTCTTTAGAGCTGACAGGACTGCTGTAATTTTACAGATGGGTCCCA 1557  
Db 173374 CCAATCTCTGCTCTTTAGAGCTGACAGGACTGCTGTAATTTTACAGATGGGTCTCA 173315  
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QY 1618 AAACATAGCTGGGATCTCAACGCGAATCTCGGCTAGGTGTTCCGACATGGGTCTTCT 1677  
Db 173254 AAACATAGCTGGGATCTCAACGCGAATCTCGGCTAGGTGTTCCGACATGGGTCTTCT 173195  
QY 1678 CCGGTAGCGCGGAGCTTCCATCCGAGCCCTGCTCCCATGCTCCAGCGGCTCATGGT 1737  
Db 173194 CCGGTAGCGCGGAGCTTCCATCCGAGCCCTGCTCCCATGCTCCAGCGACTCATGGT 173135  
QY 1738 CGCTCGGAGCTCTTGTCTTAAACAGTGGAGCCAGACTTAGGCAACAGCAATGCCCCA 1797  
Db 173134 CGCTCGGAGCTCTTGTCTTAAACAGTGGAGCCAGACTTAGGCAACAGCAATGCCCCA 173075  
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Db 173074 CCACACAGTGTCCGCAACAAGCCGCTGCGGTAGGTATGCTCTGAAATGAGCTCG 173015  
QY 1858 GAGATTGGGCTCGCACCG-TGACGACAGATGGAAGACTTAAAGGCGCGGCAAGAAAGATG 1916  
Db 173014 GAGATTGGGCTCGCACCG-TGACGACAGATGGAAGACTTAAAGGCGCGGCAAGAAAGATG 172955  
QY 1917 CAGCAGCTGAGTTGTTGTTATTTGATAAGAGTCAGAGTAACTCCGTTGCGGTGCTGT 1976  
Db 172954 CAGCAGCTGAGTTGTTGTTATTTGATAAGAGTCAGAGTAACTCCGTTGCGGTGCTGT 172895  
QY 1977 TAACGTTGGAGGCGAGTGTAGTCTGACAGTACTCGTTGCTCGCGCGCGCCACACAGAC 2036  
Db 172894 TAACGTTGGAGGCGAGTGTAGTCTGACAGTACTCGTTGCTCGCGCGCGCCACACAGAC 172835  
QY 2037 ATATAGCTGACAGACTAAACAGACTGTTCTTTCCATGGGTCTTTTCTGAGTCCCGTC 2096  
Db 172834 ATATAGCTGACAGACTAAACAGACTGTTCTTTCCATGGGTCTTTTCTGAGTCCCGTC 172775  
QY 2097 CTTGACACGATGAGTCTCTGCAAGAGAAAGATGACCCCTGATTAATCTCTGACGAGGC 2156  
Db 172774 CTTGACACGATGAGTCTCTGCAAGAGAAAGATGACCCCTGATTAATCTCTGACGAGGC 172715  
QY 2157 CCTTCTCTCCAGGT 2170  
Db 172714 CCTTCTCTCCAGGT 172701

RESULT 2  
US-09-705-400-64/c  
; Sequence 64, Application US/09705400  
; Patent No. 6692954  
; GENERAL INFORMATION:  
; APPLICANT: Ghazal, Peter  
; APPLICANT: Huang, Huang  
; TITLE OF INVENTION: Generation of Human Cytomegalovirus Yeast Artificial Chromosome  
; TITLE OF INVENTION: Recombinants  
; FILE REFERENCE: 98,299  
; CURRENT APPLICATION NUMBER: US/09/705,400  
; CURRENT FILING DATE: 2000-11-03  
; NUMBER OF SEQ ID NOS: 64  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 64  
; LENGTH: 229354  
; TYPE: DNA  
; ORGANISM: Human cytomegalovirus  
; FEATURE:  
; NAME/KEY: misc\_feature

OTHER INFORMATION: Human cytomegalovirus strain AD169 (GenBank X17403.1)									
US-09-705-400-64									
Query Match 94.5%; Score 2050; DB 4; Length 229354;									
Best Local Similarity 97.9%; Pred. No. 0;									
Matches 2129; Conservative 0; Mismatches 40; Indels 5; Gaps 5;									
Qy	1	CTGCAGTGAATAAATAATGCTGTTGTCGGAATACGGCTTTTGAGATTCTGTCGCC	60						
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Qy	61	GACTAAATTCATGTCGGCGCATAGTGGTGTATATCGCCGATAGAGATGGCGATATTGGA	120						
Db	174813	GACTAAATTCATGTCGGCGCATAGTGGTGTATATCGCCGATAGAGATGGCGATATTGGA	174754						
Qy	121	AAATCGATATTGAAATATGGCATATTGAAATGTCCCGATGTGATGTTCTGTGTAAC	180						
Db	174753	AAATCGATATTGAAATATGGCATATTGAAATGTCCCGATGTGATGTTCTGTGTAAC	174694						
Qy	181	TGATATCGCCATTTTCCAAAGTGATTTTGGGCATACCGGATCTGGCGATACGGCT	240						
Db	174693	TGATATCGCCATTTTCCAAAGTGATTTTGGGCATACCGGATCTGGCGATACGGCT	174634						
Qy	241	TATATCGTTTACGGGGATGGCGATAGACGACTTTGGCGACTTGGCGGATTTCTGTGTG	300						
Db	174633	TATATCGTTTACGGGGATGGCGATAGACGACTTTGGCGACTTGGCGGATTTCTGTGTG	174574						
Qy	301	GCAATATTCGAGTTTCGATATAGGTGACAGCATATGAGGCTATATCGCCGATAGAG	360						
Db	174573	GCAATATTCGAGTTTCGATATAGGTGACAGCATATGAGGCTATATCGCCGATAGAG	174514						
Qy	361	CGACATCAAGTGGCACATGGCCAAATGCATATCAATCTATACATTTGAATTTGGCA	420						
Db	174513	CGACATCAAGTGGCACATGGCCAAATGCATATCAATCTATACATTTGAATTTGGCC	174454						
Qy	421	ATTAGCCATATTAGTCAATGGTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA	480						
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Qy	481	TAGCTTGATATATCATATATGATATATATATATATATATATATATATATATATATAT	540						
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Qy	541	ATGTTGACATATGATATGATATATATATATATATATATATATATATATATATATAT	600						
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Qy	601	TAGCCCATATATGAGTTCGCGTTTACATACTTACGTTAAATGGCCCGCTCG-TGACC	659						
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Qy	660	GCCCAACGACCCCGCCCATTTGACGTCAATATGACGTATGTTCCCATAGTAAACGCCAAT	719						
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Qy	720	AGGACATTTCCATGACGTCAATGGGTGGAGTATTTACGGTAAATCTGCCCATTTGGCAGT	779						
Db	174153	AGGACATTTCCATGACGTCAATGGGTGGAGTATTTACGGTAAATCTGCCCATTTGGCAGT	174094						
Qy	780	ACATCAAGTGTATCATATGCCAAGTCCGGCCCTATTGACGTCAATGACGTAAATGGC	839						
Db	174093	ACATCAAGTGTATCATATGCCAAGTCCGGCCCTATTGACGTCAATGACGTAAATGGC	174035						
Qy	840	CCGCTGGCATATTGCCAGTACATGACCTTTACGGGACTTTTCTTACTTGGCAGTACATCT	899						
Db	174034	CCGCTGGCATATTGCCAGTACATGACCTTTTACGGGACTTTTCTTACTTGGCAGTACATCT	173975						
Qy	900	ACGTATTAGTCAATCGCTATTACATGTTGATGCGGTTTGGCAGTACACCAATGGGCGTG	959						
Db	173974	ACGTATTAGTCAATCGCTATTACATGTTGATGCGGTTTGGCAGTACACCAATGGGCGTG	173915						
Qy	960	GATAGCGTTTGGACTACGGGGATTTCCAGCTTCCACCCCATTTGACGTCAATGGGAGTT	1019						

Db	173914	GATAGCGTTTGGACTACGGGGATTTTCCAAGTCTCCACCCCATTTGACGTCAATGGGAGTT	173855						
Qy	1020	TGTTTGGCACCAAAATCAACGGGACTTTTCAAAATGTCGTATAAACCCTCCCGCCGTGA	1079						
Db	173854	TGTTTGGCACCAAAATCAACGGGACTTTTCAAAATGTCGTATAAACCCTCCCGCCCATTTGA	173795						
Qy	1080	CGAAATAGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTGTTTAGTGA	1139						
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Qy	1140	ACCGTCAGATCGCTTGAGACGCGCATCCACGCTGTTTGTGACCTCCATAGAGACACCGGG	1199						
Db	173734	ACCGTCAGATCGCTTGAGACGCGCATCCACGCTGTTTGTGACCTCCATAGAGACACCGGG	173675						
Qy	1200	ACCGATCCAGCTTCGCGCGCGGGAAACGGTGCAATTGGAACGCGGATTTCCCGTGCCTAAGA	1259						
Db	173674	ACCGATCCAGCTTCGCGCGCGGGAAACGGTGCAATTGGAACGCGGATTTCCCGTGCCTAAGA	173615						
Qy	1260	GTGACGTAACTACCGCTATAGACTCTATAGGCACACCCCTTTGGC-TCTTATCATGCT	1318						
Db	173614	GTGACGTAACTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTTCTTATCATGCT	173555						
Qy	1319	ATACTGTTTGGCTTGGGCTTATACACCCCGC-TCCTTATGCTATAGGTGATGCTAT	1377						
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Qy	1378	AGCTTAGCTTATAGGTGGGTATTGACCATTTATGACCACTCCCTTATTTGGTGACGAT	1437						
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Qy	1438	ACTTTCCATTTACTAATCCATAACATGCTCTTTGGCCACAATCTCTATTTGGCTATATG	1497						
Db	173434	ACTTTCCATTTACTAATCCATAACATGCTCTTTGGCCACAATCTCTTATTTGGCTATATG	173375						
Qy	1498	CCAATACTCTGTCTTCCAGAGACTGACACGAGCTCTGTATTTTACAGGATGGGCTCCCA	1557						
Db	173374	CCAATACTCTGTCTTCCAGAGACTGACACGAGCTCTGTATTTTACAGGATGGGCTCTCA	173315						
Qy	1558	TTTATTTATTTACAAATTTACATATACAAACGCGCTCCCGTGCCTCCCGCATGTTTAT	1617						
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Qy	1618	AAACATAGCGTGGGATCTCCACGCGATCTCGGCTGCTGTTCCGGACATGGGCTCTTCT	1677						
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Qy	1678	CCGCTAGCGCGGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGCT	1737						
Db	173194	CCGCTAGCGCGGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGCT	173135						
Qy	1738	CGCTCGGACGCTCTTGTCTTAAACAGTGAGGCGAGCTTAGGCAACAGCAATGCCCCA	1797						
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Qy	1798	CCACCAACAGTGGCGCAACAGGCGTGGGCTAGGCTATGCTCTGAAATCAGCTCG	1857						
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Qy	1858	GAGATTGGGCTCGCACCG-TGACGCGAGATGGAAGACTTAAAGGCGACCGCGCAAGAAATG	1916						
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Qy	1917	CAGGACGCTGAGTGTGTTGTTATTTGATAAGAGTCAGAGGTAACTCCCGTGGCGTGTGT	1976						
Db	172954	CAGGACGCTGAGTGTGTTGTTATTTGATAAGAGTCAGAGGTAACTCCCGTGGCGTGTGT	172895						
Qy	1977	TACCGTGGAGGCGAGTGTAGTCTGACAGTACTCGTTGCTCGCGCGCGCCACACAGAC	2036						
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Qy	2037	ATAATAGCTCAGACACTTAAACAGACTGTTCTCTTCCATGGGCTCTTTCTGCACTCACCGTC	2096						
Db	172834	ATAATAGCTCAGACACTTAAACAGACTGTTCTCTTCCATGGGCTCTTTCTGCACTCACCGTC	172775						

QY 2097 CTTGACAGATGGAGTCTCTGCGCAAGAGAAAGATGGACCTGATTAATCCTGACGAGGC 2156  
Db 172774 CTTGACAGATGGAGTCTCTGCGCAAGAGAAAGATGGACCTGATTAATCCTGACGAGGC 172715

QY 2157 CTTCTCCTCCAAGGT 2170  
Db 172714 CTTCTCCTCCAAGGT 172701

RESULT 3

US-08-276-852-156  
; Sequence 156, Application US/08276852  
; Patent No. 5652138  
; GENERAL INFORMATION:  
; APPLICANT: Burton, Dennis R  
; APPLICANT: Barbas, Carlos F  
; APPLICANT: Leiner, Richard A  
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES  
; TITLE OF INVENTION: HUMAN IMMUNODEFICIENCY VIRUS  
; NUMBER OF SEQUENCES: 170  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: The Scripps Research Institute, Office of  
; ADDRESSEE: Patent Counsel  
; STREET: 10666 No. 5652138th Torrey Pines Road, Suite 220,  
; STREET: Mail Drop TPC8  
; CITY: La Jolla  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 92037

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/276.852  
; FILING DATE: 18-JUL-1994  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/178,302  
; FILING DATE: 30-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/954,148  
; FILING DATE: 30-SEP-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fitting, Thomas  
; REGISTRATION NUMBER: 34,163  
; REFERENCE/DOCKET NUMBER: SCR1452P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 619-554-2937  
; TELEFAX: 619-554-6312

INFORMATION FOR SEQ ID NO: 156:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 13254 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: circular  
; MOLECULE TYPE: DNA (genomic)  
US-08-276-852-156

Query Match 91.5%; Score 1986.4; DB 1; Length 13254;  
Best Local Similarity 97.8%; Pred. No. 0;  
Matches 2066; Conservative 0; Mismatches 41; Indels 5; Gaps 5;

QY 1 CTGCAAGTAATAAATGTTGTTGTCGCAATACCGTTTGGAGATTCTCTCGCC 60  
Db 274 CTGCAAGTAATAAATGTTGTTGTCGCAATACCGTTTGGAGATTCTCTCGCC 333  
QY 61 GACTAAATTCATGTCGCGCGATAGTGTGTTTATCGCCGATAGAGATGGCGATATTGGAA 120  
Db 334 GACTAAATTCATGTCGCGCGATAGTGTGTTTATCGCCGATAGAGATGGCGATATTGGAA 393

QY 121 AAATCGATATTTGAAAATATGGCATATTTGAAAATGTCGCGGATGTGAGTTTCTGTGTAAC 180  
Db 394 AAATCGATATTTGAAAATATGGCATATTTGAAAATGTCGCGGATGTGAGTTTCTGTGTAAC 453  
QY 181 TGAATATCGCATTTTCCAAAAGTGATTTTGGGCATACGCGATATCTGCGCATACGGCT 240  
Db 454 TGAATATCGCATTTTCCAAAAGTGATTTTGGGCATACGCGATATCTGCGCATACGGCT 513  
QY 241 TATATCGTTTACGCGGGGATGGCGATAGACGACTTTTGGCGACTTTGGCGGATTTCTGTGTGTC 300  
Db 514 TATATCGTTTACGCGGGGATGGCGATAGACGACTTTTGGCGGATTTCTGTGTGTC 573  
QY 301 GCAAAATATCGCAGTTTCGATATAGGTGACAGACGATATAGGGCTATATCCCGATAGAG 360  
Db 574 GCAAAATATCGCAGTTTCGATATAGGTGACAGACGATATAGGGCTATATCCCGATAGAG 633  
QY 361 CGACATCAAGCTGCGCATGCGCAATGCATATCGATCTATACATTTGAATCAATATTGGCA 420  
Db 634 CGACATCAAGCTGCGCATGCGCAATGCATATCGATCTATACATTTGAATCAATATTGGCC 693  
QY 421 ATTAGCCATATTAGTCAATTGGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA 480  
Db 694 ATTAGCCATATTAGTCAATTGGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA 753  
QY 481 TAGCTTGTATCTATATCATTAATATGATCATTTATTTGGCTCATGTCCAATATGACCGCC 540  
Db 754 TAGCTTGTATCTATATCATTAATATGATCATTTATTTGGCTCATGTCCAATATGACCGCC 813  
QY 541 ATGTTGACATTGATTTAGTACTAGTTTAAATAGTAATCAATTTACGCGGGTCAATTAGTTCA 600  
Db 814 ATGTTGACATTGATTTAGTACTAGTTTAAATAGTAATCAATTTACGCGGGTCAATTAGTTCA 873  
QY 601 TAGCCCATATATGGAGTTCCGCGTTACATAACTTACGTTAAATGGCCCGCTCG-TGACC 659  
Db 874 TAGCCCATATATGGAGTTCCGCGTTACATAACTTACGTTAAATGGCCCGCTCGTGCACC 933  
QY 660 GCCCAACGACCCCGCCCATGAGTCAATTAAGACGTTATGTTCCCATAGTAACGCCAAT 719  
Db 934 GCCCAACGACCCCGCCCATGAGTCAATTAAGACGTTATGTTCCCATAGTAACGCCAAT 993  
QY 720 AGGCACTTTTCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTTGGCAGT 779  
Db 994 AGGCACTTTTCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTTGGCAGT 1053  
QY 780 ACATCAAGTGTATCATATGCGAAGTCCGCGCCCTTATGAGCTCAATGACGTAATATGGC 839  
Db 1054 ACATCAAGTGTATCATATGCGAAGTAC-GCCCCCTATTGACGTCAATGACGTTAAATGGC 1112  
QY 840 CCGCTGCGCATTTATGCCAGTACATGACCTTACGGGACTTTTCCCTACTTTGGCAGTACATCT 899  
Db 1113 CCGCTGCGCATTTATGCCAGTACATGACCTTATGGGACTTTTCCCTACTTTGGCAGTACATCT 1172  
QY 900 ACGTATTAGTCAATCGCTATTACCATGTTGATGCGGTTTGGCAGTACACCAATGGCGTG 959  
Db 1173 ACGTATTAGTCAATCGCTATTACCATGTTGATGCGGTTTGGCAGTACATCAATGGCGTG 1232  
QY 960 GATAGCGGTTTGAATCAGCGGGGATTTCCAAAGTCTCCACCCCATGACGTCATATGGGAGTT 1019  
Db 1233 GATAGCGGTTTGAATCAGCGGGGATTTCCAAAGTCTCCACCCCATGACGTCATATGGGAGTT 1292  
QY 1020 TGTTTTGGCACCACCAATCAACGGGACTTTTCCAAAATGTCGTAATAACCCGCCCGTTGA 1079  
Db 1293 TGTTTTGGCACCACCAATCAACGGGACTTTTCCAAAATGTCGTAATAACCCGCCCGTTGA 1352  
QY 1080 CGCAAAATGGCGGTAGGCGTGTACGGTGGGAGGCTATATAAGCAGAGAGCTCGTTTGTGTA 1139  
Db 1353 CGCAAAATGGCGGTAGGCGTGTACGGTGGGAGGCTATATAAGCAGAGAGCTCGTTTGTGTA 1412  
QY 1140 ACCGTGAGATCGCTGAGAGAGCCCATCCACGCTGTTTGTGACCTCCATAGAGACACCGGG 1199  
Db 1413 ACCGTGAGATCGCTGAGAGAGCCCATCCACGCTGTTTGTGACCTCCATAGAGACACCGGG 1472  
QY 1200 ACCGATCCAGCTCCGCGCGGGGAAACGTTGATGGAAACGCGATTTCCTCGTGCACGA 1259

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Db 1473 ACCGATCAGGCTCCGGCGCGGAGCGTGTCATTTGGAACCGGATTTCCCGTGCCCAAGA 1532
Qy 1260 GTGACGTAAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGC-TCTTATGATGCT 1318
Db 1533 GTGACGTAAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCT 1592
Qy 1319 ATACTGTTTTGGCTTGGGCTATACACCCCGC-TCTTATGCTATAGTGATGCTAT 1377
Db 1593 ATACTGTTTTGGCTTGGGCTATACACCCCGCTCTCTCATTTATAGTGATGCTAT 1652
Qy 1378 AGCTTAGCTATAGTGTGGGTATTGACCACTATTGACCACTCCCTATTGGTGAGAT 1437
Db 1553 AGCTTAGCTATAGTGTGGGTATTGACCACTATTGACCACTCCCTATTGGTGAGAT 1712
Qy 1438 ACTTTCATTACTAATCCATAAATGCTCTTTGCCCAACTATCTCTATTGGCTATATG 1497
Db 1713 ACTTTCATTACTAATCCATAAATGCTCTTTGCCCAACTCTCTTTATTGGCTATATG 1772
Qy 1498 CCAATCTCTGCTCTCAGAGACTGACACGACTCTGTATTTTACAGGATGGGGTCCCA 1557
Db 1773 CCAATCTCTGCTCTCAGAGACTGACACGACTCTGTATTTTACAGGATGGGGTCTCA 1832
Qy 1558 TTTATTATTTACAAATTCACATATACAAACGCGTCCCGCGTCCCGCAGTTTTTTATT 1617
Db 1833 TTTATTATTTACAAATTCACATATACAAACGCGTCCCGCAGTCCCGCAGTTTTTTATT 1892
Qy 1618 AAACATAGCGTGGATCTCCACGGAATCTCGGTACGTGTTCGGACATGGGCTCTTCT 1677
Db 1893 AAACATAGCGTGGATCTCCACGGAATCTCGGTACGTGTTCGGACATGGGCTCTTCT 1952
Qy 1578 CCGTAGCGGCGAGCTTCACATCCGAGCCCTGGTCCGCTCCAGCGGCTCATGCT 1737
Db 1953 CCGTAGCGGCGAGCTTCACATCCGAGCCCTGGTCCGCTCCAGCGGCTCATGCT 2012
Qy 1738 CGCTCGCAGCTCTGCTCTCTACAGTGGAGGCGAGACTTTAGGCACAGCAATGCCCA 1797
Db 2013 CGCTCGCAGCTCTGCTCTCTACAGTGGAGGCGAGACTTTAGGCACAGCAATGCCCA 2072
Qy 1798 CCACCCAGTGTGCCGACCAAGCGCTGGCGGTAGGCTATGCTCTGAAATGAGCTCG 1857
Db 2073 CCACCCAGTGTGCCGACCAAGCGCTGGCGGTAGGCTATGCTCTGAAATGAGCTCG 2132
Qy 1858 GAGATTGGCTCGCACCG-TGACCGCAGATGAAGACTTAAGGACGCGGCGAGAAAGATG 1916
Db 2133 GGGAGCGGGCTTGACCGCTGACGCATTTGGAAGACTTAAGGACGCGGCGAGAAAGATG 2192
Qy 1917 CAGCAGCTGAGTGTGTTGTTATTCGATAAGTACAGAGTAACTCCCGTTGCGGTGCTGT 1976
Db 2193 CAGCAGCTGAGTGTGTTGTTATTCGATAAGTACAGAGTAACTCCCGTTGCGGTGCTGT 2252
Qy 1977 TAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTCTGCTGCGCGCGGCGCCACAGAC 2036
Db 2253 TAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTCTGCTGCGCGCGGCGCCACAGAC 2312
Qy 2037 ATAATAGCTGACAGCTAAACAGATGTTCTTTTCATGGGCTTTTCTGAGTCAACCGTC 2096
Db 2313 ATAATAGCTGACAGCTAAACAGATGTTCTTTTCATGGGCTTTTCTGAGTCAACCGTC 2372
Qy 2097 CTTGACACGATG 2108
Db 2373 CTTGACACGAG 2384
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## RESULT 4

US-08-276-852-170/c

; Sequence 170, Application US/08276852

; Patent No. 5652138

; GENERAL INFORMATION:

; APPLICANT: Burton, Dennis R

; APPLICANT: Barbas, Carlos F

; APPLICANT: Lerner, Richard A

; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES

```
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
; NUMBER OF SEQUENCES: 170
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: The Scripps Research Institute, Office of
; ADDRESSEE: Patent Counsel
; STREET: 10666 No. 5652138th Torrey Pines Road, Suite 220,
; STREET: Mail Drop TPC8
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/276,852
; FILING DATE: 18-JUL-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/178,302
; FILING DATE: 30-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/954,148
; FILING DATE: 30-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Fitting, Thomas
; REGISTRATION NUMBER: 34,163
; REFERENCE/DOCKET NUMBER: SCR1452P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-554-2937
; TELEFAX: 619-554-6312
; INFORMATION FOR SEQ ID NO: 170:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13254 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; US-08-276-852-170
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Query Match 91.58; Score 1986.4; DB 1; Length 13254;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 2066; Conservative 0; Mismatches 41; Indels 5; Gaps 5;

Qy 1 CTGCAGTGAATAATAAATGTTGTTGTCGGAATAACGGCTTTTGAGATTTCTGTGCGCC 60
Db 12981 CTGCAGTGAATAATAAATGTTGTTGTCGGAATAACGGCTTTTGAGATTTCTGTGCGCC 12922

Qy 61 GACTAAATTCATGTCGCGCGATAGTGTGTTTATCGCCGATAGAGATGGCGATATTGGAA 120
Db 12921 GACTAAATTCATGTCGCGCGATAGTGTGTTTATCGCCGATAGAGATGGCGATATTGGAA 12862

Qy 121 AAATCGATATTGAAATATGTCATATTGAAATGTCGCGATGAGTTCTGTGTAAC 180
Db 12861 AAATCGATATTGAAATATGTCATATTGAAATGTCGCGATGAGTTCTGTGTAAC 12802

Qy 181 TGATATCGCCATTTTCCAAAAGTGAATTTTGGGCATACGCGATATCTGGCGATACCGCT 240
Db 12801 TGATATCGCCATTTTCCAAAAGTGAATTTTGGGCATACGCGATATCTGGCGATACCGCT 12742

Qy 241 TATATCGTTTACGCGGATGCGGATAGACGACTTTGGCGACTTTGGGCGATTTCTGTGTGC 300
Db 12741 TATATCGTTTACGCGGATGCGGATAGACGACTTTGGGCGATTTCTGTGTGC 12682

Qy 301 GCAAAATATCCAGTTTCGATATAGGTGACAGACGATAGGCTATATCCCGGATAGAG 360
Db 12681 GCAAAATATCCAGTTTCGATATAGGTGACAGACGATAGGCTATATCCCGGATAGAG 12622

Qy 361 CGACATCAAGCTGGCAGCATGCGCAATGCATATCTATACATTTGAATCAATATTGGCA 420
Db 12621 CGACATCAAGCTGGCAGCATGCGCAATGCATATCTATACATTTGAATCAATATTGGCC 12562
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QY 421 ATTAGCCATATTAGTCAATTGGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA 480  
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QY 481 TAGCTGTATCTATATCAATAATATGTACATTTATTTGGCTCATGTCAATATAGCCGCC 540  
DB 12501 TAGCTGTATCCATATATATATATATATTTATTTGGCTCATGTCAACATTTACGCC 12442  
QY 541 ATGTGTACATTTGATTATGACTAGTTATTAATAGTAATCAATTAACGGGCTCATTTAGTTCA 600  
DB 12441 ATGTGTACATTTGATTATGACTAGTTATTAATAGTAATCAATTAACGGGCTCATTTAGTTCA 12382  
QY 601 TAGCCATATATGAGTTTCCCGGTTACATACTTTACGGTAAATGGCCGCCCTCG-TGACC 659  
DB 12381 TAGCCATATATGAGTTTCCCGGTTACATACTTTACGGTAAATGGCCGCCCTCGTACC 12322  
QY 660 GCCCAACGACCCCGCCCATTTGACGTCAATTAATGACGTATGTTCCCATAGTAACGCCAAT 719  
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QY 720 AGGACTTTCCATTTGACGTCAATGGTGGAGTATTTACGGTAAATGGCCACTTTGGCAGT 779  
DB 12261 AGGACTTTCCATTTGACGTCAATGGTGGAGTATTTACGGTAAATGGCCACTTTGGCAGT 12202  
QY 780 ACATCAAGTGTATCATATGCCAAGTCCGCGCCCTTATTGACGTCAATGACGGTAAATGGC 839  
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QY 840 CGCCTGCAATATGCCCAGTACATGACTTTACGGGACTTTCTTACTTTGGCAGTACATCT 899  
DB 12142 CGCCTGCAATATGCCCAGTACATGACTTTATGGGACTTTCTTACTTTGGCAGTACATCT 12083  
QY 900 AGCTATTAGTCATCGCTATTACCATGTGATGCGGTTTGGCAGTACACCAATGGCGTG 959  
DB 12082 AGCTATTAGTCATCGCTATTACCATGTGATGCGGTTTGGCAGTACATCAATGGCGTG 12023  
QY 960 GATAGCGGTTTGAATCAGCGGATTTCCAAGTCTCCACCCATTTGACGTCAATGGGAGTT 1019  
DB 12022 GATAGCGGTTTGAATCAGCGGATTTCCAAGTCTCCACCCATTTGACGTCAATGGGAGTT 11963  
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DB 11962 TGTTTTGGCACAATAATCAACGGGACTTTCCAAAATGTCTGTAACCAACTCCGCCCCCATTTGA 11903  
QY 1080 CGCAATGGCGGTAGGCGGTACGCTGGAGGTCTATATAGCAGAGCTCGTTTAGTGA 1139  
DB 11902 CGCAATGGCGGTAGGCGGTACGCTGGAGGTCTATATAGCAGAGCTCGTTTAGTGA 11843  
QY 1140 ACCGTAGATCGCTGGAGACGCCATCCACGCTGTTTGAATCCATAGAGACACCGGG 1199  
DB 11842 ACCGTAGATCGCTGGAGACGCCATCCACGCTGTTTGAATCCATAGAGACACCGGG 11783  
QY 1200 ACCGATCCAGCTCCGCGCGCGGACCGGTGATTTGGAACGGGATTTCCCGTGCCAAGA 1259  
DB 11782 ACCGATCCAGCTCCGCGCGCGGACCGGTGATTTGGAACGGGATTTCCCGTGCCAAGA 11723  
QY 1260 GTGAGTAACTAGTACCGCTATAGCTCTATAGGCACACCCCTTTGGC-TCTTATGATGCT 1318  
DB 11722 GTGAGTAACTAGTACCGCTATAGCTCTATAGGCACACCCCTTTGGC-TCTTATGATGCT 11663  
QY 1319 ATACTGTTTTGGCTTGGGCGCTATACACCCCGC-TGCTTATGATAGGTGATGGTAT 1377  
DB 11662 ATACTGTTTTGGCTTGGGCGCTATACACCCCGCTTCTCATGTTATAGGTGATGGTAT 11603  
QY 1378 AGCTTAGCTATAGGTGGGTTATGACCATTTTGGACCTCCCTATTGGTCACCAT 1437  
DB 11602 AGCTTAGCTATAGGTGGGTTATGACCATTTTGGACCTCCCTATTGGTCACCAT 11543  
QY 1438 ACTTTCCATATCAATCCATAACAGCTCTTTTGGCACAACATCTCTTATTGGCTATATG 1497  
DB 11542 ACTTTCCATATCAATCCATAACAGCTCTTTTGGCACAACATCTCTTATTGGCTATATG 11483

QY 1498 CCAATACTCTGCTCTTACAGAGACTGACCGGACTCTGTATTTTACAGGATGGGTCCTCA 1557  
DB 11482 CCAATACTCTGCTCTTACAGAGACTGACCGGACTCTGTATTTTACAGGATGGGTCCTCA 11423  
QY 1558 TTTTATTATTTACAAATTTACATATACAAACCGCGTCCCGCGTCCCGCAGTTTTTATT 1617  
DB 11422 TTTTATTATTTACAAATTTACATATACAAACCGCGTCCCGCAGTTTTTATT 11363  
QY 1618 AAACATAGCGTGGGATCTCCACGGAATCTCGGGTACGTTTCCGGAACATPGGCTCTTCT 1677  
DB 11362 AAACATAGCGTGGGATCTCCACGGAATCTCGGGTACGTTTCCGGAACATPGGCTCTTCT 11303  
QY 1678 CCGGTAGCGCGGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGCT 1737  
DB 11302 CCGGTAGCGCGGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGCTCATGCT 11243  
QY 1738 CGCTCGGACGCTCTTCTCTTAACAGTGGAGCCAGACTTTAGGCACAGCACAATGCCCCA 1797  
DB 11242 CGCTCGGACGCTCTTCTCTTAACAGTGGAGCCAGACTTTAGGCACAGCACAATGCCCCA 11183  
QY 1798 CCACCACAGTGTCCGCAACAAGCCGCTGGCGGTAGGGTATGTCTGAAAAATGAGCTCG 1857  
DB 11182 CCACCACAGTGTCCGCAACAAGCCGCTGGCGGTAGGGTATGTCTGAAAAATGAGCTCG 11123  
QY 1858 GAGATTGGGCTCGCACCG-TGACGCAGATGGAAGACTTAAAGGCAGCGGCAAGAAAGATG 1916  
DB 11122 GGGAGCGGGCTTGACCGCTGACGCAATTTGGAAGACTTAAAGGCAGCGGCAAGAAAGATG 11063  
QY 1917 CAGGACGCTGAGTTGTTGTTATCTGATAAGAGTCAGAGGTAACTCCCGTTGCGGTGCTGT 1976  
DB 11062 CAGGACGCTGAGTTGTTGTTATCTGATAAGAGTCAGAGGTAACTCCCGTTGCGGTGCTGT 11003  
QY 1977 TAAAGTGGAGGCGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGGCCACACAG 2036  
DB 11002 TAAAGTGGAGGCGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGGCCACACAG 10943  
QY 2037 ATAATAGCTGACAGACTAAACAGACTGTTCTTCCATGGGCTCTTTCTGCACTCACCGTC 2096  
DB 10942 ATAATAGCTGACAGACTAAACAGACTGTTCTTCCATGGGCTCTTTCTGCACTCACCGTC 10883  
QY 2097 CTTGACACGATG 2108  
DB 10882 CTTGACACGATG 10871

## RESULT 5

US-08-899-575-156  
; Sequence 156 Application US/08899575  
; Patent No. 5770440  
; GENERAL INFORMATION:  
; APPLICANT: Burton, Dennis R  
; APPLICANT: Barbas, Carlos F  
; APPLICANT: Lerner, Richard A  
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES  
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS  
; NUMBER OF SEQUENCES: 170  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: The Scripps Research Institute, Office of  
; ADDRESSEE: Patent Counsel  
; STREET: 10666 No. 5770440th Torrey Pines Road, Suite 220,  
; STREET: Mail drop TPC8  
; CITY: La Jolla  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 92037  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/899,575  
; FILING DATE: 24-JUL-1997



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; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: US 08/276,852
; FILING DATE: 18-JUL-1994
; APPLICATION NUMBER: US 08/178,302
; FILING DATE: 30-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/954,148
; FILING DATE: 30-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Fitting, Thomas
; REGISTRATION NUMBER: 34,163
; REFERENCE/DOCKET NUMBER: SCR1452P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-554-2937
; TELEFAX: 619-554-6312
; INFORMATION FOR SEQ ID NO: 156:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13254 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
US-08-899-575-156

Query Match 91.5%; Score 1986.4; DB 1; Length 13254;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 2066; Conservative 0; Mismatches 41; Indels 5; Gaps 5;

QY 1 CTGCAGTGAATAATAAATGTTGTTGTCGGAATAACGCGTTTGTGAGATTTCCTGTCGCC 60
DB 274 CTGCAGTGAATAATAAATGTTGTTGTCGGAATAACGCGTTTGTGAGATTTCCTGTCGCC 333
QY 61 GACTAAATTCATGTCGCGCGATAGTGTGTTTATCGCGGATAGAGATGGCGATATTGAA 120
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QY 121 AAATCGATATTGAAATATGCGATATTGAAATGTCGCGGATAGTGTGTTTCTGTGTAAC 180
DB 394 AAATCGATATTGAAATATGCGATATTGAAATGTCGCGGATAGTGTGTTTCTGTGTAAC 453
QY 181 TGATATCGCATTTTCCAAAGTGAATTTTGGGCATACGCGATATCTGGCGATACGCGCT 240
DB 454 TGATATCGCATTTTCCAAAGTGAATTTTGGGCATACGCGATATCTGGCGATACGCGCT 513
QY 241 TATATCGTTTACGGGGATGCGGATAGACGACTTTTGGCGACTTGGCGGATTTCTGTGTGTC 300
DB 514 TATATCGTTTACGGGGATGCGGATAGACGACTTTTGGCGACTTGGCGGATTTCTGTGTGTC 573
QY 301 GCAAATATCGCAGTTTCGATATAGGTGACAGACGATATGAGGCTATATCGCGGATAGAG 360
DB 574 GCAAATATCGCAGTTTCGATATAGGTGACAGACGATATGAGGCTATATCGCGGATAGAG 633
QY 361 CGACATCAAGCTGGCAGATGCGCAATGCATATCGATCTATACATTTGAATCAATATTGSCA 420
DB 634 CGACATCAAGCTGGCAGATGCGCAATGCATATCGATCTATACATTTGAATCAATATTGSC 693
QY 421 ATTAGCCATATTAGTCAATTGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA 480
DB 694 ATTAGCCATATTAGTCAATTGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA 753
QY 481 TACGTTGATCTATATCAATAATATGTAATTTATTTGCTCATGTGCTCAATATGACCGCC 540
DB 754 TACGTTGATCTATATCAATAATATGTAATTTATTTGCTCATGTGCTCAATATGACCGCC 813
QY 541 ATGTTGATTTGATTTAGTCTATTATATAGTCAATTTAGTCAATTTAGTCAATTTAGTCA 600
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QY 601 TAGCCCATATATGAGTTTCGCGTTTACATACTTTACGTTAAATGGCCCGCTCG-TGACC 659
DB 874 TAGCCCATATATGAGTTTCGCGTTTACATACTTTACGTTAAATGGCCCGCTCGTGNACC 933

660 GCCCAACGACCCCGCCCATTTGACGTCAATAAATGACGTATGTTCCCATAGTAACGCCAAT 719
DB 934 GCCCAACGACCCCGCCCATTTGACGTCAATAAATGACGTATGTTCCCATAGTAACGCCAAT 993
QY 720 AGGGACTTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAATCTGCCACATTTGGCAGT 779
DB 994 AGGGACTTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAATCTGCCACATTTGGCAGT 1053
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QY 1738 CGCTCGCAGCTCTCTGCTCTCTAAACAGTGGAGGCCAGACTTAGGCACAGCAATGCCCA 1797
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Db 2133 GGGAGCGGCTTGACACGCTGACGCACTTTGGAAGACTTTAAGCGCAGCGCCAGGAAGATG 2192  
Qy 1917 CAGGAGCTGAGTTGTTGTTATCTGATGAAGTCAAGAGTCAAGGTAACCTCCCGTTGCGGTGCTGT 1976  
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Db 2253 TAAAGTGGAGGCGAGTGTAGTCTGAGCAGTACTGTTGCTGCGCGCGCGCCACCCAGAC 2312  
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Db 2373 CTTGACACGAAG 2384

RESULT 6

US-08-899-575-170/c  
; Sequence 170, Application US/08899575  
; Patent No. 5770440  
; GENERAL INFORMATION:  
; APPLICANT: Burton, Dennis R  
; APPLICANT: Barbas, Carlos F  
; APPLICANT: Lerner, Richard A  
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES  
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS  
; NUMBER OF SEQUENCES: 170  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: The Scripps Research Institute, Office of  
; ADDRESSEE: Patent Counsel  
; STREET: 10666 No. 5770440th Torrey Pines Road, Suite 220,  
; CITY: La Jolla  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 92037  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; FILING DATE: 24-JUL-1997  
; APPLICATION NUMBER: US/08/899,575  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/276,852  
; FILING DATE: 18-JUL-1994  
; APPLICATION NUMBER: US 08/178,302  
; FILING DATE: 30-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/954,148  
; FILING DATE: 30-SEP-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fitting, Thomas  
; REGISTRATION NUMBER: 34,163  
; REFERENCE/DOCKET NUMBER: SCRI452P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 619-554-2937  
; TELEFAX: 619-554-6312  
; INFORMATION FOR SEQ ID NO: 170:

; SEQUENCE CHARACTERISTICS:  
; LENGTH: 13254 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: circular  
; MOLECULE TYPE: DNA (genomic)  
US-08-899-575-170  
Query Match 91.5%; Score 1986.4; DB 1; Length 13254;  
Best Local Similarity 97.8%; Pred. No. 0;  
Matches 2066; Conservative 0; Mismatches 41; Indels 5; Gaps 5;  
Qy 1 CTGCAAGTAAATAATAATGTGTGTTGTCGGAATACGCGTTTGGAGATTCTGTGCGCC 60  
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Qy 61 GACTAAATTCATGTCGCGCGATAGTGTGTTATCGCCGATAGAGATGGCGATATTGGAA 120  
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Db 12321 GCCCAACGACCCCGCCCATTTGACGTCAATATGACGTATGTTCCCATAGTAAGCCCAAT 12262  
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Db 11242 CGCTCGGAGCTCTTGTCTCTTAACAGTGGAGGCGCAGCTTAGGCACAGCAATGCCCA 11183  
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Db 11182 CCACACAGTGTCCGCGCACAAAGCCGTGGCGGTAGGATGCTGCTGAAATCAGCTCG 11123  
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Db 11122 GGGAGCGGCTTGACCGCTGACGCATTTGGAAGACTTAAGGCGAGCGGCGCAAGAAAGATG 11063  
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Qy 1977 TAACGGTGGAGGGCAGTGTAGTCTGACAGTACCTGTTGCTGCGCGCGCCACACAGAC 2036

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Db 10882 CTTGACACGAAG 10871  
RESULT 7  
US-08-899-575-156  
; Sequence 156, Application US/08899575  
; Patent No. 5804440  
; GENERAL INFORMATION:  
; APPLICANT: Burton, Dennis R  
; APPLICANT: Barbas, Carlos F  
; APPLICANT: Lerner, Richard A  
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES  
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS  
; NUMBER OF SEQUENCES: 170  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: The Scripps Research Institute, Office of  
; ADDRESSEE: Patent Counsel  
; STREET: 10666 No. 580440th Torrey Pines Road, Suite 220,  
; STREET: Mail Drop TPC8  
; CITY: La Jolla  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 92037  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/899,575  
; FILING DATE: 24-JUL-1997  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/276,852  
; FILING DATE: 18-JUL-1994  
; APPLICATION NUMBER: US 08/178,302  
; FILING DATE: 30-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/954,148  
; FILING DATE: 30-SEP-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fitting, Thomas  
; REGISTRATION NUMBER: 34,163  
; REFERENCE/DOCKET NUMBER: SCRI452P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 619-554-2937  
; TELEFAX: 619-554-6312  
; INFORMATION FOR SEQ ID NO: 156:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 13254 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: circular  
; MOLECULE TYPE: DNA (genomic)  
; US-08-899-575-156

Query Match 91.5%; Score 1986.4; DB 1; Length 13254;  
Best Local Similarity 97.8%; Pred. No. 0;  
Matches 2066; Conservative 0; Mismatches 41; Indels 5; Gaps 5;  
Qy 1 CTCAGTGAATAATAAATGTTGTTGTCGGAATAACGCGTTTGTGAGATTTCTGTGCGCC 60  
Db 274 CTCAGTGAATAATAAATGTTGTTGTCGGAATAACGCGTTTGTGAGATTTCTGTGCGCC 333  
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Qy 780 ACATCAAGTGTATCATATGCCAAGTCCCGCCCCCTTATTGACGTCAATGACGGTAAATGGC 839  
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Db 1293 TGTGTTTGGCACCATAAATCAACGGGACTTTCCAAATATGCTGTAATTAACCCCGCCCATTTGA 1352  
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Db 1353 CGCAATATGGCGGTAGGCGGTGATCGGTGGGAGTCTTATATAAGCAGAGCTCGTTTAGTGA 1412  
Qy 1140 ACCGTGAGTCCGCTGGAGACGCGCATCCACGCTGTTTGGACCTCCATAGAGACACCGGG 1199

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Qy 1200 ACCGATCCAGCTCCGCGCGCGGAAACGGTGCAATGGAAACGCGGATTTCCCGTGCCAAAGA 1259  
Db 1473 ACCGATCCAGCTCCGCGCGCGGAAACGGTGCAATGGAAACGCGGATTTCCCGTGCCAAAGA 1532  
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Qy 1678 CCGGTAGCGGCGAGCTTCCACATCCGAGCCCTGCTCCCATGCTCCAGCGGCTCATGGT 1737  
Db 1953 CCGGTAGCGGCGAGCTTCCACATCCGAGCCCTGCTCCCATGCTCCAGCGACTCATGGT 2012  
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Db 2073 CCACCAACAGTGTCCCGCACAAAGCCGTGGGGTAGGGTATGTTCTGTAATGAGCTCG 2132  
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Qy 1977 TAAAGGTGGAGGCGAGTGTCTGAGCAGTACTGTTGCTGCGCGCGCGCCACAGAC 2036  
Db 2253 TAAAGGTGGAGGCGAGTGTCTGAGCAGTACTGTTGCTGCGCGCGCGCCACAGAC 2312  
Qy 2037 ATAATAGCTGACAGACTTAAACAGACTGTTTCCCTTCCATGGGTCTTTTCTGCAAGTCAACCGTC 2096  
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Qy 2097 CTTGACAGATG 2108  
Db 2373 CTTGACAGATG 2108  
Db 2373 CTTGACAGATG 2108

RESULT 8  
US-08-899-575-170/c  
; Sequence 170, Application US/08899575  
; Patent No. 5804440  
; GENERAL INFORMATION:  
; APPLICANT: Burton, Dennis R

APPLICANT: Barbas, Carlos F  
 APPLICANT: Lerner, Richard A  
 TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES  
 TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS  
 NUMBER OF SEQUENCES: 170  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: The Scripps Research Institute, Office of  
 ADDRESSEE: Patent Counsel  
 STREET: 10666 No. 580440th Torrey Pines Road, Suite 220,  
 STREET: Mail Drop TPC8  
 CITY: La Jolla  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 92037  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/899,575  
 FILING DATE: 24-JUL-1997  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/276,852  
 FILING DATE: 18-JUL-1994  
 APPLICATION NUMBER: US 08/178,302  
 FILING DATE: 30-SEP-1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/954,148  
 FILING DATE: 30-SEP-1992  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Fitting, Thomas  
 REGISTRATION NUMBER: 34,163  
 REFERENCE/DOCKET NUMBER: SCRI452P  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-554-2937  
 TELEFAX: 619-554-6312  
 INFORMATION FOR SEQ ID NO: 170:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 13254 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: circular  
 MOLECULE TYPE: DNA (genomic)  
 US-08-899-575-170

Query Match	91.5%	Score	1986.4;	DB 1;	Length	13254;			
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1319	ATA	CTGTTTTTGGCTTTGGCGCTATACACCCCGC-TCCTTATGCTATAGGTGATGAT	1377
11662	ATA	CTGTTTTTGGCTTTGGCGTCTATACACCCCGCTTCTCATGTTATTAGGTGATGAT	11603
1378	AC	CTTAGCTATAGGTGTGGTTATTGACCAATTTATGACCACTCCCTCTATTGTTGACGAT	1437
11602	AC	CTTAGCTATAGGTGTGGTTATTGACCAATTTATGACCACTCCCTCTATTGTTGACGAT	11543

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RESULT 9
PCT-US95-08743-156
; Sequence 156 Application PC/TUS9508743
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
; NUMBER OF SEQUENCES: 170
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/08743
; FILING DATE: 11-JUL-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/276,852
; FILING DATE: 18-JUL-1994
; INFORMATION FOR SEQ ID NO: 156:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13254 base pairs
; TYPE: nucleic acid
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; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
PCT-US95-08743-156
Query Match 91.58; Score 1986.4; DB 5; Length 13254;
Best Local Similarity 97.88; Pred. No. 0;
Matches 2066; Conservative 0; Mismatches 41; Indels 5; Gaps 5;
Qy 1 CTGCAGTGAATAATAAATGTGTGTTCGCCAAATACGCGTTTTCGTGAGATTCTCTGTCGCC 60
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Qy 121 AATTCGATATTTGAAAATATGGCATATTTGAAAATGTCGCCGATGTGAGTTTCTGTGTAAC 180
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RESULT 10  
PCT-US95-08743-170/c  
; Sequence 170, Application PC/TUS9508743  
; GENERAL INFORMATION:  
; APPLICANT: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES  
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS  
; NUMBER OF SEQUENCES: 170  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/08743  
; FILING DATE: 11-JUL-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/276,852  
; FILING DATE: 18-JUL-1994  
; INFORMATION FOR SEQ ID NO: 170:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 13254 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: circular  
; MOLECULE TYPE: DNA (genomic)  
PCT-US95-08743-170  
Query Match 91.5%; Score 1986.4; DB 5; Length 13254;  
Best Local Similarity 97.8%; Pred. No. 0;  
Matches 2066; Conservative 0; Mismatches 41; Indels 5; Gaps 5;  
QY 1 CTGCAGTGAATAATAAATGTGTGTTTGTCCGAAATACGCGTTTGTGAGATTTCTGTGCGCC 60  
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Qy	1080	CGCAAA	TGGGGGT	TAGCGGT	TACGTTGG	GAGTCTATAT	AGCAGAGCT	CGTTTAG	TGA	1139		
Db	11902	CGCAAA	TGGGGGT	TAGCGGT	TACGTTGG	GAGTCTATAT	AGCAGAGCT	CGTTTAG	TGA	11843		
Qy	1140	ACCGT	CGAGAT	CGCTTG	GAGACG	GCATCC	ACGCTGTTTTG	ACCTCCA	TAGA	CAACCGGG	1199	
Db	11842	ACCGT	CGAGAT	CGCTTG	GAGACG	GCATCC	ACGCTGTTTTG	ACCTCCA	TAGA	CAACCGGG	11783	
Qy	1200	ACCGAT	CGAGCT	CCGGCGG	GGAACGGT	GCATTTG	GGAACGGGAT	TC	CCCGTCC	AGAGA	1259	
Db	11782	ACCGAT	CGAGCT	CCGGCGG	GGAACGGT	GCATTTG	GGAACGGGAT	TC	CCCGTCC	AGAGA	11723	
Qy	1260	GTGAC	GTAAAGT	PACCGCTAT	AGACTCTAT	ATAGGCAC	ACCCCTTTGGC	-TCTAT	TGATGCT	1318		
Db	11722	GTGAC	GTAAAGT	PACCGCTAT	AGACTCTAT	ATAGGCAC	ACCCCTTTGGC	-TCTAT	TGATGCT	11663		
Qy	1319	ATAC	TGTTTTT	TGGCTTGGG	CGCTAT	AC	CCCCCGC	-TCCTTAT	GCTAT	AGGTGAT	1377	
Db	11662	ATAC	TGTTTTT	TGGCTTGGG	CGCTAT	AC	CCCCCGCTT	CCCTCAT	GTAT	AGGTGAT	11603	
Qy	1378	AGCT	TAGCCTAT	TAGTGTGG	GTATTTAC	CACTATT	TGACCACT	CCCTAT	TGGTGAC	GAAT	1437	
Db	11602	AGCT	TAGCCTAT	TAGTGTGG	GTATTTAC	CACTATT	TGACCACT	CCCTAT	TGGTGAC	GAAT	11543	
Qy	1438	ACTTT	TCCATTA	CTAAT	CCATA	ACATG	CGCTCTTTG	CCCACTA	CTCTAT	TGGCTAT	1497	
Db	11542	ACTTT	TCCATTA	CTAAT	CCATA	ACATG	CGCTCTTTG	CCCACTA	CTCTAT	TGGCTAT	11483	
Qy	1498	CCA	TACTCTG	CTCTCAG	AGACTG	CACGG	ACTCTG	TATTTTT	TACAG	ATGGG	1557	
Db	11482	CCA	TACTCTG	CTCTCAG	AGACTG	CACGG	ACTCTG	TATTTTT	TACAG	ATGGG	11423	
Qy	1558	TTTT	TATTTT	CAAAATTC	CA	TATAC	AAACCG	CGCTCC	CCCGTGG	CGCAGTTTTAT	1617	

Db	11422	TTTTATTATTACAAATTACATATATACACACACCGTCCCCAGTCCCGCAGTTTATT	1136
Qy	1618	AAACATAGGCTGGGATCTCCACGCCAAATCTCGGTACGTGTTCGGACATGGGCTCTTCT	1677
Db	11362	AAACATAACGTGGGATCTCCACCGGAATCTCGGTACGTGTTCGGACATGGGCTCTTCT	11303
Qy	1678	CCGGTAGCGCGGAGTTTCCACATCGAGCCCTGGTCCCATGCCCTCCAGCGGCTCATGGT	1737
Db	11302	CCGGTAGCGCGGAGTTTCTACATCCGAGCCCTGCTCCCATGCCCTCCAGCGACTCATGGT	11243
Qy	1738	CGCTCGGCAGCTCCTTGGCTCCTTAAACAGTGGAGCCAGACTTATAGGCACAGCAATGCCCA	1797
Db	11242	CGCTCGGCAGCTCCTTGGCTCCTTAAACAGTGGAGCCAGACTTATAGGCACAGCAGATGCCCA	11183
Qy	1798	CCACCACGAGTGGCCGCGCACAGGCCGTGGCGGTAGGTATGTGTGAAAAATGAGCTCG	1857
Db	11182	CCACCACGAGTGGCCGCGCACAGGCCGTGGCGGTAGGTATGTGTGAAAAATGAGCTCG	11123
Qy	1858	GAGATTGGGCTCGCACCG-TGACGCAGATGGAGAGCTTAAAGCGAGCGGCAGAGAAGATG	1916
Db	11122	GGGAGCGGCTTGACCGGCTGACGCATTTGGAAGACTTAAAGCAGCGGCAGAGAAGATG	11063
Qy	1917	CAGCAGCTCAGTTGTGTGATTTCTGATAGAGTCAGAGTAACTCCCGTTGGCGTCTGT	1976
Db	11062	CAGCAGCTCAGTTGTGTGTCTGATAGAGTCAGAGTAACTCCCGTTGGCGTCTGT	11003
Qy	1977	TAAAGGTGAGGCGAGTGTAGTCTGAGCAGTACTCGTCTCGCGCGCGCCACACAGAC	2036
Db	11002	TAAAGGTGAGGCGAGTGTAGTCTGAGCAGTACTCGTCTCGCGCGCGCCACACAGAC	10943
Qy	2037	ATAATAGCTCAGACACTTAAACAGACTGTTCCTTTTCCATGGGTCTTTTTCAGTCAACGTC	2096
Db	10942	ATAATAGCTCAGACACTTAAACAGACTGTTCCTTTTCCATGGGTCTTTTTCAGTCAACGTC	10883
Qy	2097	CTTGACACGATG 2108	
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RESULT 11
US-09-173-053-8
; Sequence 8, Application US/09173053
; Patent No. 6451769
; GENERAL INFORMATION:
; APPLICANT: HUEBNER, Robert C.
; APPLICANT: NORMAN, Jon A.
; APPLICANT: LIANG, Xiaowu
; APPLICANT: CARNER, Kristin R.
; APPLICANT: BARBOUR, Alan G.
; APPLICANT: LUKE, Catherine J.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ADMINISTERING BORRELIA DNA
; FILE REFERENCE: 454312-2440.1
; CURRENT APPLICATION NUMBER: US/09/173,053
; CURRENT FILING DATE: 1998-10-15
; PRIOR APPLICATION NUMBER: 08/663,998
; PRIOR FILING DATE: 1996-06-14
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 8
; LENGTH: 5215
; TYPE: DNA
; ORGANISM: Borrelia burgdorferi
US-09-173-053-8

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APPLICANT: LUKE, Catherine J.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ADMINISTERING BORRELIA DNA



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Qy 578 TCAATATCGGGTCAATAGTTCATAGCCCATATATFAGAGTTCGCGTTACATACTTACG 637  
Db 290 TCAATATCGGGTCAATAGTTCATAGCCCATATATFAGAGTTCGCGTTACATACTTACG 349  
Qy 638 GTAAATGSCCGCCTCGTAGCGGCCCAACGACCCCGCCCATTTGACGTCATATAGAGGT 697  
Db 350 GTAATGSCCGCCTCGTAGCGGCCCAACGACCCCGCCCATTTGACGTCATATAGAGGT 409  
Qy 698 ATGTTCCCATATAGTAAACGCAATAGGGAATTTCCATTTGACGTCATATAGAGGT 757  
Db 410 ATGTTCCCATATAGTAAACGCAATAGGGAATTTCCATTTGACGTCATATAGAGGT 469  
Qy 758 GGTAAACTGCCACATTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCGCCCTATT 817  
Db 470 GGTAAACTGCCACATTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCGCCCTATT 529  
Qy 818 GACGTCAATGACGGTAAATGSCCGCCTGGCATTATGCCCCAGTACATGACCTTACGGGAC 877  
Db 530 GACGTCAATGACGGTAAATGSCCGCCTGGCATTATGCCCCAGTACATGACCTTACGGGAC 589  
Qy 878 TTTCCACTTTGGCAGTACATCTAGTATTTAGTTCATCGCTATTACCATGGTATCGGTTT 937  
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Qy 938 TGGCAGTACACAATGGCGGTGGATAGCGGTTTGACTCAGCGGATTTCCAAAGTCTCCAC 997  
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Qy 998 CCCATTGACGTCATGGGAGTTGTTTGGCACCACCAATCAACGGGACTTTCCAAATGT 1057  
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Qy 1058 CGTAATAACCCCGCCCGCTTGACGCAATGGCGGTAGCGGTGTACGGTGGAGGTCTAT 1117  
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Qy 1118 ATAAGCAGAGTCTGTTAGTGAAACCGTCAGATCGCTGGAGACGCCATCCACGCTGTTT 1177  
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Qy 1178 GACCTCCATAGACACACCGGACCGATCCAGCTCCGCGCGCGGACGTCATTTGA 1237  
Db 890 GACCTCCATAGACACACCGGACCGATCCAGCTCCGCGCGCGGACGTCATTTGA 949  
Qy 1238 ACGGGATTCCCGTGCCCAAGAGTGACGTAAGTACCGCTATAGACTCTATAGGCACACC 1297  
Db 950 ACGGGATTCCCGTGCCCAAGAGTGACGTAAGTACCGCTATAGACTCTATAGGCACACC 1009  
Qy 1298 CTTTGGCTCTTATGCAATGCTATAGTATAGTATAGTATAGTATAGTATAGTATAGTAT 1357  
Db 1010 CTTTGGCTCTTATGCAATGCTATAGTATAGTATAGTATAGTATAGTATAGTATAGTAT 1069  
Qy 1358 TATGCTATAGTATAGTATAGTATAGTATAGTATAGTATAGTATAGTATAGTATAGTAT 1417  
Db 1070 TATGCTATAGTATAGTATAGTATAGTATAGTATAGTATAGTATAGTATAGTATAGTAT 1129  
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Qy 1477 ACTATCTATTGGCTATATGCCAATCTGTCTTCCAGAGTACGACGACTCTGTGA 1536  
Db 1190 ACTATCTATTGGCTATATGCCAATCTGTCTTCCAGAGTACGACGACTCTGTGA 1249  
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Db 1370 GTTCCGACATGGGCTCTTCTCCGCTAGCGCGGAGGCTTCCACATCCGAGCCCTGGTCCC 1429  
Qy 1717 ATGCTCCAGCGGCTCATGCTCGCTCGGAGCTCTTGTCTTAAACAGTGGAGGCCAGAC 1776  
Db 1430 ATGCTCCAGCGGCTCATGCTCGCTCGGAGCTCTTGTCTTAAACAGTGGAGGCCAGAC 1489  
Qy 1777 TTAGGCACAGCACAAATGCCCAACCAAGTGTGCCGCAACAGGCGCTGGCGGTAGGGT 1836  
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Qy 1837 ATGCTCTGAAAATGAGCTCGGAGATTTGGGCTCGCACCCTGACGAGATGGAAGACTTAA 1896  
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Qy 1897 GGCAGCGCAGAGAAGATGCAGCAGCTGAGTTGTTGTTATTTCTGATAAGAGTCAGAGGT 1956  
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Qy 2077 TCTTTCTGAGTCACCGTCTCTTGACACGA 2106  
Db 1790 TCTTTCTGAGTCACCGTCTCTTGACACGA 1819

## RESULT 12

US-08-760-615-7  
; Sequence 7, Application US/08760615  
; Patent No. 620959  
; GENERAL INFORMATION:  
; APPLICANT: Haynes, Joel R  
; APPLICANT: Schmaljohn, Connie S  
; APPLICANT: Fuller, Deborah L  
; APPLICANT: Schmaljohn, Alan  
; TITLE OF INVENTION: GENETIC INDUCTION OF ANTI-VIRAL IMMUNE  
; TITLE OF INVENTION: RESPONSE AND GENETIC VACCINE FOR FILOVIRUS  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Quarles & Brady  
; STREET: 1 South Pinckney Street  
; CITY: Madison  
; STATE: WI  
; COUNTRY: US  
; ZIP: 53703  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/760,615  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Berson, Bennett J  
; REGISTRATION NUMBER: 37094  
; REFERENCE/DOCKET NUMBER: 110229.91241  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 608-251-5000  
; TELEFAX: 608-251-9166  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:

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; LENGTH: 4326 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "Expression vector
; IMMEDIATE SOURCE:
; CLONE: pMRG7077
; FEATURE:
; NAME/KEY: promoter
; LOCATION: 1250..2062
; FEATURE:
; NAME/KEY: intron
; LOCATION: 2063..2887
; OTHER INFORMATION: /function= "Human Cytomegalovirus
; OTHER INFORMATION: Intron A"
; FEATURE:
; NAME/KEY: polyA_site
; LOCATION: 2912..3314
; FEATURE:
; NAME/KEY: CDS
; LOCATION: complement (299..1114)
;
US-08-760-615-7

Query Match 73.5%; Score 1594.4; DB 3; Length 4326;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1639; Conservative 0; Mismatches 1; Indels 4; Gaps 4;

QY 457 CAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATATATATGATATATAT 516
DB 1255 CAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATATATATGATATATAT 1314
QY 517 TGGCTCATGTCCTCAATATGACCGCCATGTCATGATTTATGACTAGTATTAATAGTA 576
DB 1315 TGGCTCATGTCCTCAATATGACCGCCATGTCATGATTTATGACTAGTATTAATAGTA 1374
QY 577 ATCAATTAACGGGGTCAATAGTTTATGATGATATGATGATGATGATGATGATGATGAT 636
DB 1375 ATCAATTAACGGGGTCAATAGTTTATGATGATATGATGATGATGATGATGATGATGAT 1434
QY 637. GGTAAATGGCCGCTCG -TGACCGCCCAACGACCGCCCGCCATGACGTCAATATGAC 695
DB 1435 GGTAAATGGCCGCTCGGTGACCGCCCAACGACCGCCCGCCATGACGTCAATATGAC 1494
QY 696 GTATGTTCCATAGTAACGCCAATAGGACTTTTCCATTGACGTCAATGGGTGGAGTATT 755
DB 1495 GTATGTTCCATAGTAACGCCAATAGGACTTTTCCATTGACGTCAATGGGTGGAGTATT 1554
QY 756 ACGGTAAACTGCCACTTGGCAGTACATCAAGTGTATCATATGCAAGTCCGCGCCCTTA 815
DB 1555 ACGGTAAACTGCCACTTGGCAGTACATCAAGTGTATCATATGCAAGTCC -GCCCCCTA 1613
QY 816 TTGAGTCATATGACGGTAAATGGCCCGCTGTCATATGTCAGTACATGACCTTACGGG 875
DB 1614 TTGAGTCATATGACGGTAAATGGCCCGCTGTCATATGTCAGTACATGACCTTACGGG 1673
QY 876 ACTTTCTACTTGGCAGTACATCTAGTATTAGTTCATGCTATTACCATGGTGGTGGGT 935
DB 1674 ACTTTCTACTTGGCAGTACATCTAGTATTAGTTCATGCTATTACCATGGTGGTGGGT 1733
QY 936 TTTGGCAGTACACCAATGGGCGTGGATAGCGGTTTGACTCACGGGGATTTTCAAGTCTCC 995
DB 1734 TTTGGCAGTACACCAATGGGCGTGGATAGCGGTTTGACTCACGGGGATTTTCAAGTCTCC 1793
QY 996 ACCCATTTGACGTCAATGGGAGTTTGTGTCACCAAAATCAACGGGACTTTTCAAAAT 1055
DB 1794 ACCCATTTGACGTCAATGGGAGTTTGTGTCACCAAAATCAACGGGACTTTTCAAAAT 1853
QY 1056 GTGCTAAATAACCCCGCCCGTTGACGCAATGGGCGGTAGGCGTGTACGGTGGGAGTCT 1115
DB 1854 GTGCTAAATAACCCCGCCCGTTGACGCAATGGGCGGTAGGCGTGTACGGTGGGAGTCT 1913
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RESULT 13  
US-08-345-913-1  
; Sequence 1, Application US/08345913  
; Patent No. 5641665

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QY 1176 TTGACCTCCATAGAAGACACCGGAGCCGATCCAGCTCCGCGCCCGGGAACCGTGCATTG 1235
DB 1974 TTGACCTCCATAGAAGACACCGGAGCCGATCCAGCTCCGCGCCCGGGAACCGTGCATTG 2033
QY 1236 GAAACGGGATTTCCCGTGGCCAAAGAGTGAAGTAAAGTACCGCTATAGACTCTATAGGCACA 1295
DB 2034 GAAACGGGATTTCCCGTGGCCAAAGAGTGAAGTAAAGTACCGCTCTATAGGCACA 2093
QY 1296 CCCCTTTGGCTCTTATGATGCTATGCTATGCTTTTGGCTTGGGCTTATACACCCCGG-T 1354
DB 2094 CCCCTTTGGCTCTTATGATGCTATGCTATGCTTTTGGCTTGGGCTTATACACCCCGCTT 2153
QY 1355 CCTTATGCTATAGTGATGATGATAGCTTATAGCTTATAGTGTGGTATTATGACCATATTG 1414
DB 2154 CCTTATGCTATAGTGATGATGATAGCTTATAGCTTATAGTGTGGTATTATGACCATATTG 2213
QY 1415 ACCACTCCCTATTGGTGAAGTATCTTTCCATTACTTAATCCATAAATGCTCTTTGCCA 1474
DB 2214 ACCACTCCCTATTGGTGAAGTATCTTTCCATTACTTAATCCATAAATGCTCTTTGCCA 2273
QY 1475 CAACATCTCTATTGGCTATATGCCAATATCTGTCTTCCAGAGACTGACACGGACTCTG 1534
DB 2274 CAACATCTCTATTGGCTATATGCCAATATCTGTCTTCCAGAGACTGACACGGACTCTG 2333
QY 1535 TATTTTACAGGATGGGCTCCCATTTTATTTACAAATTTACATATACAAACACGCGT 1594
DB 2334 TATTTTACAGGATGGGCTCCCATTTTATTTACAAATTTACATATACAAACACGCGT 2393
QY 1595 CCCCCTGCGCCGAGTTTATTTAAACATAGCGTGGATCTTCCACGGAATCTCGGGTAC 1654
DB 2394 CCCCCTGCGCCGAGTTTATTTAAACATAGCGTGGATCTTCCACGGAATCTCGGGTAC 2453
QY 1655 GTGTTCCGACATGGGCTCTTCTCCGCTAGGCGGAGCTTCCACATCCGAGCCCTGGTC 1714
DB 2454 GTGTTCCGACATGGGCTCTTCTCCGCTAGGCGGAGCTTCCACATCCGAGCCCTGGTC 2513
QY 1715 CCATGCTCCAGCGGCTCATGCTCGCTCGGAGCTCTTCTCTCTTAAACAGTGGAGGCCAG 1774
DB 2514 CCATGCTCCAGCGGCTCATGCTCGCTCGGAGCTCTTCTCTCTTAAACAGTGGAGGCCAG 2573
QY 1775 ACTTAGGCACAGCAATATGCCACCAACACACAGTGTGCGGACAAAGCGGTGGCGGTAGG 1834
DB 2574 ACTTAGGCACAGCAATATGCCACCAACACACAGTGTGCGGACAAAGCGGTGGCGGTAGG 2633
QY 1835 GTATGCTGTGAAATGAGCTCGGAGATTTGGGCTCGCACCG-TGACGCAGATGGAAGACT 1893
DB 2634 GTATGCTGTGAAATGAGCTCGGAGATTTGGGCTCGCACCGCTGACGCAGATGGAAGACT 2693
QY 1894 TAAGCGAGCGGACGAGAAAGATGACGAGCTGAGTGTGTTGTTATTTCTGATAAGAGTACAGA 1953
DB 2694 TAAGCGAGCGGACGAGAAAGATGACGAGCTGAGTGTGTTGTTATTTCTGATAAGAGTACAGA 2753
QY 1954 GGTAACTCCCGTTCGCGTGTGTTAAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTCGT 2013
DB 2754 GGTAACTCCCGTTCGCGTGTGTTAAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTCGT 2813
QY 2014 TGCTGCCGCGCGCCACACAGACATATAGCTGACAGCTAAACAGACTGTTCTTTTCCAT 2073
DB 2814 TGCTGCCGCGCGCCACACAGACATATAGCTGACAGCTAAACAGACTGTTCTTTTCCAT 2873
QY 2074 GGGTCTTTTCTGCACTACCGTCC 2097
DB 2874 GGGTCTTTTCTGCACTACCGTCC 2897
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Db 1381 AGCTCGGAGATTGGGCTCGCAGCGCTGACGAGATGGAAGACTTAAAGGCGGCGAGAAG 1440  
Qy 1911 AAGATGACGAGCTGAGTTGTTGTTATCTGATTAAGAGTCAGAGGTAACCTCCGTTCCGG 1970  
Db 1441 AAGATGACGAGCTGAGTTGTTGTTATCTGATTAAGAGTCAGAGGTAACCTCCGTTCCGG 1500  
Qy 1971 -TGCTGTTAAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGGCC 2029  
Db 1501 TTGCTGTTAAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGGCC 1560  
Qy 2030 ACCAGACATAATAGCTGACAGACTAAACAGACTGTCTCTTCCATGGGTCCTTTCTGCAGT 2089  
Db 1561 ACCAGACATAATAGCTGACAGACTAAACAGACTGTCTCTTCCATGGGTCCTTTCTGCAGT 1620  
Qy 2090 CACGCTCCTTGACACGATGGA 2110  
Db 1621 CACCGTCGTCGACACGTTGTA 1641

RESULT 15  
US-09-628-445-1  
; Sequence 1, Application US/09628445  
; Patent No. 639588  
; GENERAL INFORMATION:  
; APPLICANT: Hobart, Peter M.  
; APPLICANT: Margalith, Michal  
; APPLICANT: Parker, Suzanne E.  
; APPLICANT: Khatibi, Shirin  
; TITLE OF INVENTION: Cancer Treatment Utilizing Plasmids Suitable for IL-2 Expression  
; FILE REFERENCE: 1530.0080002  
; CURRENT APPLICATION NUMBER: US/09/628,445  
; CURRENT FILING DATE: 2000-07-28  
; PRIOR FILING DATE: 1997-03-14  
; PRIOR APPLICATION NUMBER: US 08/818,562  
; PRIOR FILING DATE: 1994-11-28  
; NUMBER OF SEQ ID NOS: 3  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 4928  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1689)...(2159)  
US-09-628-445-1

Query Match 73.0%; Score 1583.4; DB 3; Length 4928;  
Best Local Similarity 99.4%; Pred. No. 0;  
Matches 1631; Conservative 0; Mismatches 6; Indels 4; Gaps 4;  
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Db 1 CATTGCATACGTTGTATCTATATCATATATGATACATTTATATTTGGCTCATGTCCAATAT 60  
Qy 534 GACGCCATGTTGACATTTGATTTGATGATGATGATGATGATGATGATGATGATGATGATGAT 593  
Db 61 GACGCCATGTTGACATTTGATTTGATGATGATGATGATGATGATGATGATGATGATGATGAT 120  
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Db 121 TAGTTTATAGCCCATATATGAGTTTCGGCTTACATAACTTACGTTAAATGGCCCGCTC 180  
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Qy 1073 CCGTTGACGCAAAATGGCGGTAGCGGTAGCGGTAGCGGTAGCGGTAGCGGTAGCGGTAGCGGT 1132  
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Qy 1133 TTAGTGAACCGTCAGATCGCTTGGAGACGCCATCCACGCTGTTTGTGACCTCCATAGAAGA 1192  
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Db 901 TGCTATAGCTTAGCTTAGGTGGGTTATGACCATTTATGACCATCTCCCTATTGGT 960  
Qy 1432 GACGATACCTTTCCATTAATCAATCAATGCTCTTTGCCACAACTATCTCTATTGGC 1491  
Db 961 GACGATACCTTTCCATTAATCAATCAATGCTCTTTGCCACAACTATCTCTATTGGC 1020  
Qy 1492 TATATGCCAATCTCTGCTTCCAGAGACTGACACGAGCTCTGTATTTTACAGGATGG 1551  
Db 1021 TATATGCCAATCTCTGCTTCCAGAGACTGACACGAGCTCTGTATTTTACAGGATGG 1080  
Qy 1552 GTCCCATTTATTTTCAAAATTCATATACAAACGCGCTCCCGCTGCGCGGAGTT 1611  
Db 1081 GTCCCATTTATTTTCAAAATTCATATACAAACGCGCTCCCGCTGCGCGGAGTT 1140  
Qy 1612 TTTTATTAACATAGCTGGGATCTCCACGGAATCTCGGGTACGTGTTCCGAGCATGGC 1671  
Db 1141 TTTTATTAACATAGCTGGGATCTCCACGGAATCTCGGGTACGTGTTCCGAGCATGGC 1200  
Qy 1672 TCTTCTCCGCTAGCGGCGAGCTTCCACATCCGAGCCCTGCTCCCATGCTCCAGCGGCT 1731  
Db 1201 TCTTCTCCGCTAGCGGCGAGCTTCCACATCCGAGCCCTGCTCCCATGCTCCAGCGGCT 1260  
Qy 1732 CATGCTGCTGCGGAGCTCTCTTCTTAAACAGTGGAGGCGAGCTTAGGAGCAGACAA 1791  
Db 1261 CATGCTGCTGCGGAGCTCTCTTCTTAAACAGTGGAGGCGAGCTTAGGAGCAGACAA 1320  
Qy 1792 TGCCCAACCAACAGCTGTCGCGCAACAGCGCTGGGGTAGGGTATGCTCTGAAATG 1851  
Db 1321 TGCCCAACCAACAGCTGTCGCGCAACAGCGCGCTGGGGTAGGGTATGCTCTGAAATG 1380  
Qy 1852 AGCTCGGAGATTGGGCTCGCACCG-TGACGAGATGGAAGACTTAAAGGCGAGCGGAGAG 1910  
Db 1381 AGCTCGGAGATTGGGCTCGCACCGCTGACGCGAGATGGAAGACTTAAAGGCGGCGAGAG 1440

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Qy 1911 AAGATGCAGGAGCTGAGTTGTTGTTATTCTGATAAGAGTCAGAGGTAACCTCCGTTGCGG 1970
Db 1441 AAGATGCAGGAGCTGAGTTGTTGTTATTCTGATAAGAGTCAGAGGTAACCTCCGTTGCGG 1500
Qy 1971 -TGCTGTTAACGGTGGAGGGCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCGCC 2029
Db 1501 TTGCTGTTAACGGTGGAGGGCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCGCC 1560
Qy 2030 ACCAGACATAATAGCTGACAGACTAACAGACTGTTCCCTTTCCATGGGTCTTTTCTGCAGT 2089
Db 1561 ACCAGACATAATAGCTGACAGACTAACAGACTGTTCCCTTTCCATGGGTCTTTTCTGCAGT 1620
Qy 2090 CACCGTCCTTGACACGATGGA 2110
Db 1621 CACCGTCGTCGACACGTGTGA 1641
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Search completed: December 20, 2004, 13:50:41  
Job time : 214.111 secs

Qy 61 GACTAAATTCAATGTCGCGCGATAGTGGTGTTTA

Db 61 |||||GACTAAATTCATGTCGGCGGATAGTGGTGTGTTTATCGCCGATAGAGATGGCGATATTGGAA 120  
Qy 121 AAATCGATATTGAAATATGCGATATTGAAATGTCGGCGATGTCGATGTCGATGTCGTAAC 180  
Db 121 AAATCGATATTGAAATATGCGATATTGAAATGTCGGCGATGTCGATGTCGTAAC 180  
Qy 181 TGATATCGCCATTTTCCAAAGTGATTTTGGGCATACGCGATPATCTGGCGATACGGCT 240  
Db 181 TGATATCGCCATTTTCCAAAGTGATTTTGGGCATACGCGATPATCTGGCGATACGGCT 240  
Qy 241 TATATCGTTTACGGGGGATGCGATAGACGACTTTGGGACTTTGGGCGATTCGTGTGTC 300  
Db 241 TATATCGTTTACGGGGGATGCGATAGACGACTTTGGGCGATTCGTGTGTC 300  
Qy 301 GCAAATATCGCAGTTTCGATATAGGTGACAGCATATGAGGCTATATCGCCGATAGAGG 360  
Db 301 GCAAATATCGCAGTTTCGATATAGGTGACAGCATATGAGGCTATATCGCCGATAGAGG 360  
Qy 361 CGACATCAAGCTGGCACATGCGCAATCGATATCGATCTATCAATGAATCAATATTGGCA 420  
Db 361 CGACATCAAGCTGGCACATGCGCAATCGATATCGATCTATCAATGAATCAATATTGGCA 420  
Qy 421 ATTAGCCATATTAGTCATTTGTTTATATAGCATATAATCAATATTGGCTATTGGCCATTGCA 480  
Db 421 ATTAGCCATATTAGTCATTTGTTTATATAGCATATAATCAATATTGGCTATTGGCCATTGCA 480  
Qy 481 TAGCTTGATCTATATCATATATGATCATTTTATTTGGCTCATGTCCAAATGACCGCC 540  
Db 481 TAGCTTGATCTATATCATATATGATCATTTTATTTGGCTCATGTCCAAATGACCGCC 540  
Qy 541 ATGTTGACATTTGATTTAGCTAGTTAATAGTAATCAATTAACGGGGTCATTAGTTCA 600  
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Qy 601 TAGCCCATATATGAGTTCCGGTTACATACTTACGGTAATGGCCCGCTCGTGACCG 660  
Db 601 TAGCCCATATATGAGTTCCGGTTACATACTTACGGTAATGGCCCGCTCGTGACCG 660  
Qy 661 CCCAACGACCCCGCCCATTCAGCTCAATATGACGTATGTTCCCATAGTAACGCCAATA 720  
Db 661 CCCAACGACCCCGCCCATTCAGCTCAATATGACGTATGTTCCCATAGTAACGCCAATA 720  
Qy 721 GGGACTTTCCATTTGACGTCAATGCGGTGAGTATTTTACGGTAAATGCGCCACTTGGCAGTA 780  
Db 721 GGGACTTTCCATTTGACGTCAATGCGGTGAGTATTTTACGGTAAATGCGCCACTTGGCAGTA 780  
Qy 781 CATCAAGTGTATCATATGCGGACCGCCCGCTTATTCAGCTCAATGACGTAAATGSCC 840  
Db 781 CATCAAGTGTATCATATGCGGACCGCCCGCTTATTCAGCTCAATGACGTAAATGSCC 840  
Qy 841 CGCCTGGCATTTATGCCAGTACATGACCTTACGGGACTTTCCTACTTGGCAGTACATCTA 900  
Db 841 CGCCTGGCATTTATGCCAGTACATGACCTTACGGGACTTTCCTACTTGGCAGTACATCTA 900  
Qy 901 CGTATTAGTCATCGCTATTACATGGTGAATGGGTTTGGCGATGACCAATGGCGTGG 960  
Db 901 CGTATTAGTCATCGCTATTACATGGTGAATGGGTTTGGCGATGACCAATGGCGTGG 960  
Qy 961 ATAGCGGTTTGACTCACGGGATTTCCAAAGTCTCCACCCATTTGACGTCAATGGGATTT 1020  
Db 961 ATAGCGGTTTGACTCACGGGATTTCCAAAGTCTCCACCCATTTGACGTCAATGGGATTT 1020  
Qy 1021 GTTTTGGCACCAAAATCAACGGGACTTTCCAAATGTCGTAAATACCCCGCCCGCTTGAC 1080  
Db 1021 GTTTTGGCACCAAAATCAACGGGACTTTCCAAATGTCGTAAATACCCCGCCCGCTTGAC 1080  
Qy 1081 GCAAATGGCGGTAGCGGTGATACGGTGGAGTCTATATAGCAGAGCTCGTTTATGTA 1140  
Db 1081 GCAAATGGCGGTAGCGGTGATACGGTGGAGTCTATATAGCAGAGCTCGTTTATGTA 1140  
Qy 1141 CCGTCAGATCGCTCGAGACGCCATCCACGCTGTTTGGACCTCCCATAGAACACCGGA 1200

RESULT 2  
US-09-765-400-64/c

Db 1141 CCGTCAGATCGCTCGAGACGCCATCCACGCTGTTTTTGACCTCCATAGAACACCCGGA 1200  
Qy 1201 CCGATCCAGCTCCGCGCGGAAACGGTGCATTTGAAACGCGATATCCCGTCCCAAGAG 1260  
Db 1201 CCGATCCAGCTCCGCGCGGAAACGGTGCATTTGAAACGCGATATCCCGTCCCAAGAG 1260  
Qy 1261 TGACGTAAAGTACCGCTATAGACTCTATAGGACACCCCTTTGGCTCTTATGATGCTAT 1320  
Db 1261 TGACGTAAAGTACCGCTATAGACTCTATAGGACACCCCTTTGGCTCTTATGATGCTAT 1320  
Qy 1321 ACTGTTTTGGCTTTGGGGCTATACACCCCGCTCTTATGCTATAGGTGATGATAGC 1380  
Db 1321 ACTGTTTTGGCTTTGGGGCTATACACCCCGCTCTTATGCTATAGGTGATGATAGC 1380  
Qy 1381 TTAGCCCTATAGGTGGGTTTATGACCATTTATGACCATCTCCCTATTTGGTGAAGTACT 1440  
Db 1381 TTAGCCCTATAGGTGGGTTTATGACCATTTATGACCATCTCCCTATTTGGTGAAGTACT 1440  
Qy 1441 TTCCATTTACTAATCCATAACATGGCTTTTGCCACACACTATCTATTGGCTATATGCCA 1500  
Db 1441 TTCCATTTACTAATCCATAACATGGCTTTTGCCACACACTATCTATTGGCTATATGCCA 1500  
Qy 1501 ATACTCTGTCTCTCAGAGACTGACACGACTCTGTATTTTACAGGATGGGGTCCCATTT 1560  
Db 1501 ATACTCTGTCTCTCAGAGACTGACACGACTCTGTATTTTACAGGATGGGGTCCCATTT 1560  
Qy 1561 ATTATTTACAAATTCACATATACAAACGCGCTCCCGTGGCCGCGAGTTTTTATTTAAA 1620  
Db 1561 ATTATTTACAAATTCACATATACAAACGCGCTCCCGTGGCCGCGAGTTTTTATTTAAA 1620  
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Db 1621 CATAGCTGGGATCTCCACGGAATCTCGGGTACGTGTTCCGGACATGGGCTCTTCTCCG 1680  
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Db 1681 GTAGCGCGGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGTCGC 1740  
Qy 1741 TCGGCAGCTCTTGTCTCTTAAACAGTGGAGGCGAGCTTAGGCAAGATGCGGAG 1800  
Db 1741 TCGGCAGCTCTTGTCTCTTAAACAGTGGAGGCGAGCTTAGGCAAGATGCGGAG 1800  
Qy 1801 CCACAGTGTGCGCCACAGGCGCTGGGTAGGTATGTCGTAATAATGAGTCTCGGAG 1860  
Db 1801 CCACAGTGTGCGCCACAGGCGCTGGGTAGGTATGTCGTAATAATGAGTCTCGGAG 1860  
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Db 1861 ATTGGGCTCGCACCGTGAACGAGATGGAAGACTTTAAGGCAAGCGGCAAGAAAGTGCAGG 1920  
Qy 1921 CAGCTGAGTTGTTGTTATTCGATAAGATCAGAGTAACTCCCGTTGGGGTGTGTTAAC 1980  
Db 1921 CAGCTGAGTTGTTGTTATTCGATAAGATCAGAGTAACTCCCGTTGGGGTGTGTTAAC 1980  
Qy 1981 GGTGAGGCGGAGTGTAGTCTGAGCAGTACTGTTGCTGCGCGCGCGCCACAGACATAA 2040  
Db 1981 GGTGAGGCGGAGTGTAGTCTGAGCAGTACTGTTGCTGCGCGCGCGCCACAGACATAA 2040  
Qy 2041 TAGCTGACAGACTAACAGACTGTTTCCCTTCCATGGGCTCTTTCTGCAAGTACCGGTCCTTG 2100  
Db 2041 TAGCTGACAGACTAACAGACTGTTTCCCTTCCATGGGCTCTTTCTGCAAGTACCGGTCCTTG 2100  
Qy 2101 ACACGATGGAGTCTCTGCGCAAGAAAGATGGACCTGATTAATCCTGACGAGGGCCCTT 2160  
Db 2101 ACACGATGGAGTCTCTGCGCAAGAAAGATGGACCTGATTAATCCTGACGAGGGCCCTT 2160  
Qy 2161 CCTCCAGGT 2170  
Db 2161 CCTCCAGGT 2170



; Sequence 64, Application US/09765400  
; Publication No. US20010009109A1  
; GENERAL INFORMATION:  
; APPLICANT: Ghazal, Peter  
; APPLICANT: Huang, Huang  
; TITLE OF INVENTION: Generation of Human Cytomegalovirus Yeast Artificial Chromosome  
; TITLE OF INVENTION: Recombinants  
; FILE REFERENCE: 98,299  
; CURRENT APPLICATION NUMBER: US/09/765,400  
; CURRENT FILING DATE: 2000-11-03  
; NUMBER OF SEQ ID NOS: 64  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 64  
; LENGTH: 229354  
; TYPE: DNA  
; ORGANISM: Human cytomegalovirus;  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Human cytomegalovirus strain AD169 (GenBank X17403.1)  
US-09-765-400-64

Query Match 94.5%; Score 2050; DB 9; Length 229354;  
Best Local Similarity 97.9%; Pred. No. 0;  
Matches 2129; Conservative 0; Mismatches 40; Indels 5; Gaps 5;  
QY 1 CTGCAGTGAATAAATAATGTTGTTGTCGGAATACGGCTTTTGAGATTTCTGTCGCC 60  
DB 174873 CTGCAGTGAATAAATAATGTTGTTGTCGGAATACGGCTTTTGAGATTTCTGTCGCC 174814  
QY 61 GACTAAATTCATGTCGCGCATAGTGTGTTATTCGCGCATAGAGATGGCGATATTGGAA 120  
DB 174813 GACTAAATTCATGTCGCGCATAGTGTGTTATTCGCGCATAGAGATGGCGATATTGGAA 174754  
QY 121 AAATCGATATTGAAATATGGCATATTGAAATATGTCGCGCATAGTGTGTTCTGTGTAAC 180  
DB 174753 AAATCGATATTGAAATATGGCATATTGAAATATGTCGCGCATAGTGTGTTCTGTGTAAC 174694  
QY 181 TGATATCGCCATTTTCCAAAAGTATTTTGGCATACGGCATATCTGGCGATACGGCT 240  
DB 174693 TGATATCGCCATTTTCCAAAAGTATTTTGGCGATACGGCATATCTGGCGATACGGCT 174634  
QY 241 TATATCGTTTACGGGGATGGCGATAGACGACTTTGGCGACTTGGCGGATTTCTGTGTGTC 300  
DB 174633 TATATCGTTTACGGGGATGGCGATAGACGACTTTGGCGACTTGGCGGATTTCTGTGTGTC 174574  
QY 301 GCAAAATTCGCGATTTTCGATATAGGTGACAGCATATGAGGCTATATCGCCGATAGAG 360  
DB 174573 GCAAAATTCGCGATTTTCGATATAGGTGACAGCATATGAGGCTATATCGCCGATAGAG 174514  
QY 361 CGACATCAAGTGGCACAATGCGCATATCGATCTATACATTTGAATCAATATTGGCA 420  
DB 174513 CGACATCAAGTGGCACAATGCGCAATGCATATCGATCTATACATTTGAATCAATATTGGCC 174454  
QY 421 ATTAGCATATTAGTCAATTTGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGGCA 480  
DB 174453 ATTAGCATATTAGTCAATTTGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGGCA 174394  
QY 481 TAGCTGTATCTATATCATATATGATATTTATTTATTTGGCTCATGTCCAAATATGACCGCC 540  
DB 174393 TAGCTGTATCTATATCATATATGATATTTATTTATTTGGCTCATGTCCAAATATTACCGCC 174334  
QY 541 ATGTTGACATTTAGTATTTAGTATTTAATAGTAATCAATTTACGGGGTCAATTAGTTCA 600  
DB 174333 ATGTTGACATTTAGTATTTAGTATTTAATAGTAATCAATTTACGGGGTCAATTAGTTCA 174274  
QY 601 TAGCCCATATATGAGTTTCGCGTTTACATTAATTTACGGTAAATGGCCCGCTCG-TGACC 659  
DB 174273 TAGCCCATATATGAGTTTCGCGTTTACATTAATTTACGGTAAATGGCCCGCTCGTACC 174214  
QY 660 GCCCAAGACCCCGCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAAT 719  
DB 174213 GCCCAAGACCCCGCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAAT 174154

QY 720 AGGAGCTTTCCATTGACGTCAATGGGTGGAGTATTTACGTAACATGCCACATTGGCAGT 779  
DB 174153 AGGAGCTTTTCCATTGACGTCAATGGGTGGAGTATTTACGTAACATGCCACATTGGCAGT 174094  
QY 780 ACATCAAGTGTATCATATGCAAGTCCGGCCCTATTTAGCGTCAATAGCGTAAATGGC 839  
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QY 840 CCGCTTGGCATTTATGCCAGTACATGACCTTTAGCGGACTTTTCTTACTTTGGCAGTACATCT 899  
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QY 900 ACCTATTAGTCATCGCTATTACCATGCTGATGCGGTTTTCGCGAGTACACCAATGGCGGTG 959  
DB 173974 ACCTATTAGTCATCGCTATTACCATGCTGATGCGGTTTTCGCGAGTACATCAATGGCGGTG 173915  
QY 960 GATAGCGGTTTGACTCACGGGGATTTTCCAAAGTCTCCACCCCATTTGACGTCAATGGGAGTT 1019  
DB 173914 GATAGCGGTTTGACTCACGGGGATTTTCCAAAGTCTCCACCCCATTTGACGTCAATGGGAGTT 173855  
QY 1020 TGTTTTGGCACCAAAATCAAACGGGACTTTTCCAAATGTCGTAAATAACCCGCCCTTTGA 1079  
DB 173854 TGTTTTGGCACCAAAATCAAACGGGACTTTTCCAAATGTCGTAAATAACCCGCCCTTTGA 173795  
QY 1080 CGCAAAATGGCGGTAGCGGTGTACGTTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA 1139  
DB 173794 CGCAAAATGGCGGTAGCGGTGTACGTTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA 173735  
QY 1140 ACCGTGAGATCGCTGCGAGACGCATCCACGCTGTTTGGACCTCCATAGAAGACACCGGG 1199  
DB 173734 ACCGTGAGATCGCTGCGAGACGCATCCACGCTGTTTGGACCTCCATAGAAGACACCGGG 173675  
QY 1200 ACCGATCCAGCCTTCGCGGCGGGAAACGTTGCAATTTGAAACGCGGATTTCCCGTCCCAAGA 1259  
DB 173674 ACCGATCCAGCCTTCGCGGCGGGAAACGTTGCAATTTGAAACGCGGATTTCCCGTCCCAAGA 173615  
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QY 1319 ATACTGTTTTGGCTTTGGGCTTATACACCCCGC-TCTTATATGCTATAGGTGATGCTAT 1377  
DB 173554 ATACTGTTTTGGCTTTGGGCTTATACACCCCGCCTTCTCATGTTATAGGTGATGCTAT 173495  
QY 1378 AGCTTAGCCTATAGGTGTTGTTATGACCATTTATGACCATCTCCCTCATTTGTTGACGAT 1437  
DB 173494 AGCTTAGCCTATAGGTGTTGTTATGACCATTTATGACCATCTCCCTCATTTGTTGACGAT 173435  
QY 1438 ACTTTCATTTACTTAATCCATAACATGGCTCTTTGGCACCACTATCTCTATTTGGCTATATG 1497  
DB 173434 ACTTTCATTTACTTAATCCATAACATGGCTCTTTGGCACCACTATCTCTATTTATTTGGCTATATG 173375  
QY 1498 CCAATCTCTGCTTCCAGAGACTGACACGAGCTCTGTATTTTACAGGATGGGGTCCCA 1557  
DB 173374 CCAATCTCTGCTTCCAGAGACTGACACGAGCTCTGTATTTTACAGGATGGGGTCCCA 173315  
QY 1558 TTTATTATTACAAATTCACATATAACAAACGCGCTCCCGTCCCGGAGTTTATT 1617  
DB 173314 TTTATTATTACAAATTCACATATAACAAACGCGCTCCCGTCCCGGAGTTTATT 173255  
QY 1618 AAACATAGTGGGATCTCCACGCGATCTCGGGTACGTTCCGGACATGGGCTCTTCT 1677  
DB 173254 AAACATAGTGGGATCTCCACGCGATCTCGGGTACGTTCCGGACATGGGCTCTTCT 173195  
QY 1678 CCGGTAGCGCGGAGCTTCCACATCCGAGCCTTGGTCCCATGCTCCAGGGGCTCATGGT 1737  
DB 173194 CCGGTAGCGCGGAGCTTCCACATCCGAGCCTTGGTCCCATGCTCCAGGGGCTCATGGT 173135  
QY 1738 CGCTCGGACGCTCTTGTCTCTTAAAGTGGAGCCAGATTAGGCAACAGCAATGGCCA 1797  
DB 173134 CGCTCGGACGCTCTTGTCTCTTAAAGTGGAGCCAGACTTAGGCAACAGCAATGGCCA 173075  
QY 1798 CCACCACGAGTGTCCGCGACACAGGCGGTAGGGTATGTCTCTGAAATAGAGCTCG 1857

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Db 173074 CCACCCAGTGTGCCGCACAAAGCCGTGGCGGTAGGTAATGTTCTGAAATAGAGCTCG 173015
Qy 1858 GAGATTGGCTGCACCG-TGACCGAGATGGAAGACTTAAGGACAGCGCAGAGAAAGATG 1916
Db 173014 GGGAGCGGGCTTGACCGCTGACGCATTTGGAAGACTTAAGGACAGCGCAGAGAAAGATG 172955
Qy 1917 CAGCAGCTGAGTTGTTGTTATCTGATAAGAGTCAGAGGTAACCTCCCGTTGCGGTGCTGT 1976
Db 172954 CAGGAGCTGAGTTGTTGTTCTGATAAGAGTCAGAGGTAACCTCCCGTTGCGGTGCTGT 172895
Qy 1977 TAACGGTGGAGGCGAGTGTAGTCTGAGCAGTAATCGTTGTCGCGCGCGGCCACAGAC 2036
Db 172894 TAACGGTGGAGGCGAGTGTAGTCTGAGCAGTAATCGTTGTCGCGCGGCCACAGAC 172835
Qy 2037 ATAATAGCTGACAGACTAACAGACTGTTCCCTTTCATGGGTCCTTTCTGAGTCAACGTC 2096
Db 172834 ATAATAGCTGACAGACTAACAGACTGTTCCCTTTCATGGGTCCTTTCTGAGTCAACGTC 172775
Qy 2097 CTTGACACGATGGAGTCTCTGCCAAGAGAAGATGAGACCTGATAATCCTGACGAGGCG 2156
Db 172774 CTTGACACGATGGAGTCTCTGCCAAGAGAAGATGAGACCTGATAATCCTGACGAGGCG 172715
Qy 2157 CTTCTCTCCAAAGT 2170
Db 172714 CTTCTCTCCAAAGT 172701

RESULT 3
US-10-016-986-156
; Sequence 156, Application US/10016986
; Publication No. US20030187247A1
; GENERAL INFORMATION:
; APPLICANT: Burton, Dennis R
; APPLICANT: Barbos, Carlos F
; APPLICANT: Lerner, Richard A
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
; FILE REFERENCE: 313.2CON1
; CURRENT APPLICATION NUMBER: US/10/016,986
; CURRENT FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: US 09/149,898
; PRIOR FILING DATE: 1998-09-08
; PRIOR APPLICATION NUMBER: US 08/899,575
; PRIOR FILING DATE: 1997-07-24
; PRIOR APPLICATION NUMBER: US 08/276,852
; PRIOR FILING DATE: 1994-07-18
; PRIOR APPLICATION NUMBER: US 08/178,302
; PRIOR FILING DATE: 1994-01-06
; PRIOR APPLICATION NUMBER: PCT/US93/09328
; PRIOR FILING DATE: 1993-09-30
; PRIOR APPLICATION NUMBER: US 07/954,148
; PRIOR FILING DATE: 1992-09-30
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 156
; LENGTH: 13254
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthesized
US-10-016-986-156

Query Match 91.5%; Score 1986.4; DB 15; Length 13254;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 2066; Conservative 0; Mismatches 41; Indels 5; Gaps 5;

Qy 1 CTGCACTGAATAATAAATGTGTGTTTGTCCGAAATACGCGTTTGGAGATTTCTGTCGCC 60
Db 274 CTGCACTGAATAATAAATGTGTGTTTGTCCGAAATACGCGTTTGGAGATTTCTGTCGCC 333
Qy 61 GACTAAATTCATGTGCGCGGATAGTGGTGTATGCCGATAGAGATGGCGATATATGGAA 120
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Db 334 GACTAAATTCATGTGCGCGGATAGTGGTGTATGCCGATAGAGATGGCGATATTTGGAA 393
Qy 121 AAATCGATATTTGAAAATATGGCATATTTGAAAATGTCCGCGATGTGAGTTTCTGTGTAAC 180
Db 394 AAATCGATATTTGAAAATATGGCATATTTGAAAATGTCCGCGATGTGAGTTTCTGTGTAAC 453
Qy 181 TGATATCGCATTTTTCAAAAGTGTATTTTGGGCGATACCGGATATCTTGGCGATACGGCT 240
Db 454 TGATATCGCATTTTTCAAAAGTGTATTTTGGGCGATACCGGATATCTTGGCGATACGGCT 513
Qy 241 TATATCGTTTACGGGGGATGGCGATAGACGACTTTTGGCGATTTGGGCGATTTCTGTGTGTC 300
Db 514 TATATCGTTTACGGGGGATGGCGATAGACGACTTTTGGCGATTTCTGTGTGTC 573
Qy 301 GCAAATATCCGAGTTTCGATATAGGTGACAGACGATATAGGGCTATATCCCGGATAGAGG 360
Db 574 GCAAATATCCGAGTTTCGATATAGGTGACAGACGATATAGGGCTATATCCCGGATAGAGG 633
Qy 361 CGACATCAAGCTGGCATGCGCAATGCGATATCGATCTATACATTTGATCAATATTTGGCA 420
Db 634 CGACATCAAGCTGGCATGCGCAATGCGATATCGATCTATACATTTGATCAATATTTGGCC 693
Qy 421 ATTAGCATATTAAGTCAATTCGTTATATAGCATAAATCAATATTTGGCTATTTGGCCATTTGCA 480
Db 694 ATTAGCATATTAAGTCAATTCGTTATATAGCATAAATCAATATTTGGCTATTTGGCCATTTGCA 753
Qy 481 TACGTTGTATCTATATCATATAATATGTACATTTATTTATTTGGCTCATGTCCAATATAGACGCC 540
Db 754 TACGTTGTATCTATATCATATAATATGTACATTTATTTATTTGGCTCATGTCCAATATAGACGCC 813
Qy 541 ATGTTGACATGATTAATGACTAGTTATTAATAGTAATCAATTTACGGGGTCAATTTAGTTCA 600
Db 814 ATGTTGACATGATTAATGACTAGTTATTAATAGTAATCAATTTACGGGGTCAATTTAGTTCA 873
Qy 601 TAGCCCATATATGAGTTCCGCTTACATAACTTTACGGTAAATGGCCGCGCTCG-TGACCC 659
Db 874 TAGCCCATATATGAGTTCCGCTTACATAACTTTACGGTAAATGGCCGCGCTCGCTGACCC 933
Qy 660 GCCCAACGACCCCGCCCATTTGACGTCAATAATAGACGTATGTTCCCATAGTAAACGCAAT 719
Db 934 GCCCAACGACCCCGCCCATTTGACGTCAATAATAGACGTATGTTCCCATAGTAAACGCAAT 993
Qy 720 AGGCACTTTCCATTTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCACTTTGGCAGT 779
Db 994 AGGCACTTTCCATTTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCACTTTGGCAGT 1053
Qy 780 ACATCAAGTGTATCATATGCCAAGTCCGCGCCCTATTGACGTCAATAGCAGCGTAAATGGC 839
Db 1054 ACATCAAGTGTATCATATGCCAAGTAC-GCCCCCTATTGACGTCAATGACGCGTAAATGGC 1112
Qy 840 CCGCTGGCATTTATGCCCAGTACATGACCTTACCGGACTTTTCCTTACCTTTGGCAGTACATCT 899
Db 1113 CCGCTGGCATTTATGCCCAGTACATGACCTTATGGGACTTTTCCTTACCTTTGGCAGTACATCT 1172
Qy 900 ACGTATTAGTCATCGCTATTACCATGTTGATGCGGTTTGGCAGTACACCAATGGCGGTG 959
Db 1173 ACGTATTAGTCATCGCTATTACCATGTTGATGCGGTTTGGCAGTACATCAATGGCGGTG 1232
Qy 960 GATAGCGGTTTGTACTCAGCGGGAATTTCCAAGTCTCCACCCCATTTGACGTCAATGGGAGTT 1019
Db 1233 GATAGCGGTTTGTACTCAGCGGGAATTTCCAAGTCTCCACCCCATTTGACGTCAATGGGAGTT 1292
Qy 1020 TGTTTTGGCACCAAAATCAACGGGACTTTTCAAAATGTCGTAATAAACCCCGCCCGCTTGA 1079
Db 1293 TGTTTTGGCACCAAAATCAACGGGACTTTTCAAAATGTCGTAATAAACCCCGCCCATTTGA 1352
Qy 1080 CGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGACTCGTTTGTAGTA 1139
Db 1353 CGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGACTCGTTTGTAGTA 1412
Qy 1140 ACCGTACAGTCGCTTGGAGACGCCATCCACGCTGTTTGTGACCTCCATAGAAAGACACCGGG 1199
Db 1413 ACCGTACAGTCGCTTGGAGACGCCATCCACGCTGTTTGTGACCTCCATAGAAAGACACCGGG 1472
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Qy 1200 ACCGATCAGCCTCCGCGCGGGAACGGTGCATTGGAAACGCGGATTCGCCGCAAGA 1259  
Db |||||  
Qy 1473 ACCGATCAGCCTCCGCGCGGGAACGGTGCATTGGAAACGCGGATTCGCCGCAAGA 1532  
Db |||||  
Qy 1260 GTGACGTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGC-TCTTATCATGCT 1318  
Db |||||  
Qy 1533 GTGACGTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGC-TCTTATCATGCT 1592  
Db |||||  
Qy 1319 ATACTGTTTTGGCTTGGGGCTATACACCCCGC-TCTTATGCTATAGGTGATGAT 1377  
Db |||||  
Qy 1593 ATACTGTTTTGGCTTGGGGCTATACACCCCGCTTCTCATGTATAGGTGATGAT 1652  
Db |||||  
Qy 1378 AGCTTAGCTATAGGTGGGTATTTGACCAATTTGACCACTCCCTATTGGTGCAT 1437  
Db |||||  
Qy 1653 AGCTTAGCTATAGGTGGGTATTTGACCAATTTGACCACTCCCTATTGGTGCAT 1712  
Db |||||  
Qy 1438 ACTTTCATTAATCAATAACATGCTCTTTGCCCAACTATCTCTATTGGCTATG 1497  
Db |||||  
Qy 1713 ACTTTCATTAATCAATAACATGCTCTTTGCCCAACTATCTCTATTGGCTATG 1772  
Db |||||  
Qy 1498 CCAATACTCTGCTCAGAGACTGACACGAGCTCTGTATTTTACAGGATGGGGTCCCA 1557  
Db |||||  
Qy 1773 CCAATACTCTGCTCAGAGACTGACACGAGCTCTGTATTTTACAGGATGGGGTCTCA 1832  
Db |||||  
Qy 1558 TTTATTTTACAAATTCACATATACAAACGCGCTCCCGGTGCCGCAAGTTTTATT 1617  
Db |||||  
Qy 1833 TTTATTTTACAAATTCACATATACAAACGCGCTCCCGGTGCCGCAAGTTTTATT 1892  
Db |||||  
Qy 1618 AAACATAGCTGGGATCTCCACGGGAATCTCGGTAGTGTTCGGGACATGGGCTCTCT 1677  
Db |||||  
Qy 1893 AAACATAGCTGGGATCTCCACGGGAATCTCGGTAGTGTTCGGGACATGGGCTCTCT 1952  
Db |||||  
Qy 1678 CCGTAGCGGGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGCT 1737  
Db |||||  
Qy 1953 CCGTAGCGGGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGCT 2012  
Db |||||  
Qy 1738 CGCTCGGAGCTCTTGTCTCTAAACAGTGAGGCGCAGATTAGGCACAGCAATGCCCA 1797  
Db |||||  
Qy 2013 CGCTCGGAGCTCTTGTCTCTAAACAGTGAGGCGCAGATTAGGCACAGCAATGCCCA 2072  
Db |||||  
Qy 1798 CCACACAGCTGTCGCCCAAGCCGCTGGCGGTAGGCTATGCTCTGAAATGAGCTCG 1857  
Db |||||  
Qy 2073 CCACACAGCTGTCGCCCAAGCCGCTGGCGGTAGGCTATGCTCTGAAATGAGCTCG 2132  
Db |||||  
Qy 1858 GAGATTGGGCTCGCACCG-TGACGCGAGATGAAGACTTTAAGCGACGCGCGCAAGAGATG 1916  
Db |||||  
Qy 2133 GGGAGCGGCTTGACCGCTGACGCAATTGGAAGACTTTAAGCGACGCGCGCAAGAGATG 2192  
Db |||||  
Qy 1917 CAGCAGCTGAGTTGTTGTTATTTGATAAGAGTCAAGGTAATCTCCGTTGCGGTGCTGT 1976  
Db |||||  
Qy 2193 CAGCAGCTGAGTTGTTGTTATTTGATAAGAGTCAAGGTAATCTCCGTTGCGGTGCTGT 2252  
Db |||||  
Qy 1977 TAAGGTGGAGGCGAGTGTAGTCTGACGCTACTCTGCTGCGCGCGCGCCACAGAC 2036  
Db |||||  
Qy 2253 TAAGGTGGAGGCGAGTGTAGTCTGACGCTACTCTGCTGCGCGCGCGCCACAGAC 2312  
Db |||||  
Qy 2037 ATATAGCTGACAGACTAAACAGACTGTTCTTTTCCATGGGCTTTTCTGCACTCACCGTC 2096  
Db |||||  
Qy 2313 ATATAGCTGACAGACTAAACAGACTGTTCTTTTCCATGGGCTTTTCTGCACTCACCGTC 2372  
Db |||||  
Qy 2097 CTTGACACGATG 2108  
Db |||||  
Qy 2373 CTTGACACGATG 2384  
Db |||||

## RESULT 4

US-10-016-986-170/c  
; Sequence 170, Application US/10016986  
; Publication No. US20030187247A1  
; GENERAL INFORMATION:  
; APPLICANT: Burton, Dennis R  
; APPLICANT: Barbas, Carlos F

; APPLICANT: Lerner, Richard A  
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES  
; FILE REFERENCE: 313.2CON1  
; CURRENT APPLICATION NUMBER: US/10/016.986  
; CURRENT FILING DATE: 2001-12-12  
; PRIOR FILING DATE: 1998-09-08 US 09/149,898  
; PRIOR APPLICATION NUMBER: US 08/899,575  
; PRIOR FILING DATE: 1997-07-24  
; PRIOR APPLICATION NUMBER: US 08/276,852  
; PRIOR FILING DATE: 1994-07-18  
; PRIOR APPLICATION NUMBER: US 08/178,302  
; PRIOR FILING DATE: 1994-01-06  
; PRIOR APPLICATION NUMBER: PCT/US93/09328  
; PRIOR FILING DATE: 1993-09-30  
; PRIOR APPLICATION NUMBER: US 07/954,148  
; PRIOR FILING DATE: 1992-09-30  
; NUMBER OF SEQ ID NOS: 176  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 170  
; LENGTH: 13254  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthesized  
US-10-016-986-170

Query Match 91.5%; Score 1986.4; DB 15; Length 13254;  
Best Local Similarity 97.8%; Pred. No. 0;  
Matches 2066; Conservative 0; Mismatches 41; Indels 5; Gaps 5;  
Qy 1 CTCAGTGAATAATAAATGTGTGTTGTCGAAATACGCGTTTGTGAGATTCTGTGCGC 60  
Db 12981 CTCAGTGAATAATAAATGTGTGTTGTCGAAATACGCGTTTGTGAGATTCTGTGCGC 12922  
Qy 61 GACTAAATTCATGTCGCGGATAGTGTGTTTATTCGCGGATAGAGATGGCGATTTGGAA 120  
Db 12921 GACTAAATTCATGTCGCGGATAGTGTGTTTATTCGCGGATAGAGATGGCGATTTGGAA 12862  
Qy 121 AAATCGATATTGAAATATGGCATATTGAAATATGTCGCGATGTGAGTTTCTGTGAAC 180  
Db 12861 AAATCGATATTGAAATATGGCATATTGAAATATGTCGCGATGTGAGTTTCTGTGAAC 12802  
Qy 181 TGATATCGCATTTTCCAAAAGTGATTTTGGGCATACGCGATATCTGGCGATACGCGT 240  
Db 12801 TGATATCGCATTTTCCAAAAGTGATTTTGGGCATACGCGATATCTGGCGATACGCGT 12742  
Qy 241 TATATCGTTTACGGGGATGCGGATAGACGACTTTGGCGACTTTGGCGATTTCTGTGTGTC 300  
Db 12741 TATATCGTTTACGGGGATGCGGATAGACGACTTTGGCGACTTTGGCGATTTCTGTGTGTC 12682  
Qy 301 GCAAATATCGCAGTTTCGATATAGGTGACAGACGATATAGGCTATATCGCCGATAGAGG 360  
Db 12681 GCAAATATCGCAGTTTCGATATAGGTGACAGACGATATAGGCTATATCGCCGATAGAGG 12622  
Qy 361 CGACATCAAGCTGGCAGATGCGCAATGCATATCGATCTATACATTTGAATCAATATTGGCA 420  
Db 12621 CGACATCAAGCTGGCAGATGCGCAATGCATATCGATCTATACATTTGAATCAATATTGGCC 12562  
Qy 421 ATTAGCATATTAGTCTATGTTGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA 480  
Db 12561 ATTAGCATATTATTCATTGTTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA 12502  
Qy 481 TAGTGTGTTATCTATATCAATATGATCAATTTATTTGGCTCATGTCCAATATGACCGCC 540  
Db 12501 TAGTGTGTTATCTATATCAATATGATCAATTTATTTGGCTCATGTCCAATATGACCGCC 12442  
Qy 541 ATGTTGACATTGATTTAGTCTAGTTTAAATAGTAATCAATTAATCGGGGTCAATTGTTCA 600  
Db 12441 ATGTTGACATTGATTTAGTCTAGTTTAAATAGTAATCAATTAATCGGGGTCAATTGTTCA 12382  
Qy 601 TAGCCCATATATGAGAGTTCCGGCTTACATTAATACGTTAAATGGCGCGCTCG-TGACC 659

Db 12381 TAGCCATATATGAGTTCCGCGTTACATACTTACGTAATAATGGCCCGCTGCTGACC 12322  
Qy 660 GCCCAACGAGCCCGCCCATTTGAGTCAATAATGACGTATGTTCCCATAGTAAACGCCCAAT 719  
Db 12321 GCCCAACGAGCCCGCCCATTTGAGTCAATAATGACGTATGTTCCCATAGTAAACGCCCAAT 12262  
Qy 720 AGGACATTTCCATTTGACGTCAATGGGTGGAGTATTTACGGTAAATCTGCCACATTTGGCAGT 779  
Db 12261 AGGACATTTCCATTTGACGTCAATGGGTGGAGTATTTACGGTAAATCTGCCACATTTGGCAGT 12202  
Qy 780 ACATCAAGTGTATCATATGCAAGTCCGCGCCCTATTTAGCTCAATGA CGTAAATGGC 839  
Db 12201 ACATCAAGTGTATCATATGCAAGTAC - GCCCCCTATTTAGCTCAATGA CGTAAATGGC 12143  
Qy 840 CCGCTGGCATTTAGTCCAGTACATGACCTTACCGGACTTTCCCTACCTTGGCAGTACATCT 899  
Db 12142 CCGCTGGCATTTAGTCCAGTACATGACCTTATGGGACTTTTCCCTACCTTGGCAGTACATCT 12083  
Qy 900 ACGTATTAGTCAATCGCTATTACCATGTGTATGCGGTTTTTGGCAGTACACCAATGGCGGTG 959  
Db 12082 ACGTATTAGTCAATCGCTATTACCATGTGTATGCGGTTTTTGGCAGTACATCAATGGCGGTG 12023  
Qy 960 GATAGCGGTTTGA CTACGGGGATTTCCAGTCTCCACCCCATTTGAGCTCAATGGGAGTT 1019  
Db 12022 GATAGCGGTTTGA CTACGGGGATTTCCAGTCTCCACCCCATTTGAGCTCAATGGGAGTT 11963  
Qy 1020 TGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAATAACCCCGCCGTTGA 1079  
Db 11962 TGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAATAACCCCGCCCATTTGA 11903  
Qy 1080 CGCAAAATGGGCGGTAGGGTGTACGGTGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA 1139  
Db 11902 CGCAAAATGGGCGGTAGGGTGTACGGTGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA 11843  
Qy 1140 ACCGTGAGATCGCTTGAGAGACCCCATCCAGCTGTTTTGACCTCCATAGAAAGACACCGGG 1199  
Db 11842 ACCGTGAGATCGCTTGAGAGACCCCATCCAGCTGTTTTGACCTCCATAGAAAGACACCGGG 11783  
Qy 1200 ACCGATCCAGCTCCGCGCGCGGAGACGGTGCATTTGGAACCGGATTTCCCGTCCCAAGA 1259  
Db 11782 ACCGATCCAGCTCCGCGCGCGGAGACGGTGCATTTGGAACCGGATTTCCCGTCCCAAGA 11723  
Qy 1260 GTGACGTAAGTACCGCTTATAGACTCTATAGGCACACCCCTTTGGC - TCTTTATGATGCT 1318  
Db 11722 GTGACGTAAGTACCGCTTATAGACTCTATAGGCACACCCCTTTGGCTTCTTTATGATGCT 11663  
Qy 1319 ATACTGTTTTTGGCTTGGGGCTTATACACCCCGG - TCCCTTATGCTATAGGTGATGTAT 1377  
Db 11662 ATACTGTTTTTGGCTTGGGGCTTATACACCCCGGCTTCCCTCATGTTATAGGTGATGTAT 11603  
Qy 1378 AGCTTAGCTATAGGTGTTGTTATTTGACCATTTTGGACACTCCCTTATTTGGTGACGAT 1437  
Db 11602 AGCTTAGCTATAGGTGTTGTTATTTGACCATTTTGGACACTCCCTTATTTGGTGACGAT 11543  
Qy 1438 ACTTTCCATTAATAATCAACATAGGCTCTTTTGGCACAATCTCTATTTGGCTATATG 1497  
Db 11542 ACTTTCCATTAATAATCAACATAGGCTCTTTTGGCACAATCTCTTTATTTGGCTATATG 11483  
Qy 1498 CCAATACCTCTGTCTTACAGACTGACACGACTCTGTATTTTACAGGATGGGGTCCCA 1557  
Db 11482 CCAATACACTGTCTCTACAGACTGACACGACTCTGTATTTTACAGGATGGGGTCTCA 11423  
Qy 1558 TTTATTTTACAAATTCACATATACAAACGCGCTCCCGTCCCGCGAGTTTTTAT 1617  
Db 11422 TTTATTTTACAAATTCACATATACAAACGCGCTCCCGTCCCGCGAGTTTTTAT 11363  
Qy 1618 AAACATAGCGGGAGTCTCCAGCGCAATCTCGGGTACGTGTTTCCGGAATAGGGCTCTTCT 1677  
Db 11362 AAACATAGCGGGAGTCTCCAGCGCAATCTCGGGTACGTGTTTCCGGAATAGGGCTCTTCT 11303  
Qy 1678 CCGGTAGCGGGAGCTTCCACATCCGAGCCCTGTGTCCCATGCTCCAGCGGCTCATGGT 1737

Db 11302 CCGGTAGCGGGGAGCTTTTACATCCGAGCCCTGCTCCCATGCTCCAGGACTCATGGT 11243  
Qy 1738 CGCTCGGACAGCTCTCTTCTCTTAACAGTGGAGGCCAGACTTAGGCACAGCAATGCCCCA 1797  
Db 11242 CGCTCGGACAGCTCTTGTCTCTTAACAGTGGAGGCCAGACTTAGGCACAGCAATGCCCCA 11183  
Qy 1798 CACACCAAGTGTGCCGCAACAAGCCGCTGGGCTAGGATATGTTCTGAAAAATGAGCTCG 1857  
Db 11182 CCACCAAGTGTGCCGCAACAAGCCGCTGGGCTAGGATATGTTCTGAAAAATGAGCTCG 11123  
Qy 1858 GAGATTTGGGCTCCACCG - TGACGCAGATGAAAGACTTTAAGGCAGCGGCAAGAAAGATG 1916  
Db 11122 GGGAGCGGGCTTGACCGCTGACGCATTTGAAAGACTTTAAGGCAGCGGCAAGAAAGATG 11063  
Qy 1917 CAGGACAGTCAAGTTGTTGTTATTTCTGATAAGAGTCAAGAGTAACTCCCGTTGCGGTGCTGT 1976  
Db 11062 CAGGACAGTCAAGTTGTTGTTGTTCTGATAAGAGTCAAGAGTAACTCCCGTTGCGGTGCTGT 11003  
Qy 1977 TAACGGTGGAGGGCAGTGTATGTTCTGAGCAGTACTCGTTGCTGCGCGCGGCCACACGAC 2036  
Db 11002 TAAACGGTGGAGGGCAGTGTATGTTCTGAGCAGTACTCGTTGCTGCGCGCGGCCACACGAC 10943  
Qy 2037 ATAATAGCTCACAGACTAAACAGACTGTTCTTCCATGGGTCTTTTCTGCAAGTCAACGTC 2096  
Db 10942 ATAATAGCTCACAGACTAAACAGACTGTTCTTCCATGGGTCTTTTCTGCAAGTCAACGTC 10883  
Qy 2097 CTTGACACCGATG 2108  
Db 10882 CTTGACACCGAAG 10871

RESULT 5

US-10-239-804-6  
; Sequence 6, Application US/10239804  
; Publication No. US20030053991A1  
; GENERAL INFORMATION:  
; APPLICANT: Oxford Biomedica (UK) Limited  
; APPLICANT: Kingsman, Alan J  
; APPLICANT: Maden, Malcolm  
; APPLICANT: Corcoran, Jonathan PT  
; TITLE OF INVENTION: Factor  
; FILE REFERENCE: P009156W0C0TH  
; CURRENT APPLICATION NUMBER: US/10/239,804  
; CURRENT FILING DATE: 2002-09-23  
; PRIOR APPLICATION NUMBER: PCT/GB00/01211  
; PRIOR FILING DATE: 2000-03-30  
; PRIOR APPLICATION NUMBER: GB 0024300.6  
; PRIOR FILING DATE: 2000-10-04  
; NUMBER OF SEQ ID NOS: 73  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 6845  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: prV67, VSV-G  
; OTHER INFORMATION: expression plasmid  
US-10-239-804-6

Query Match 87.5%; Score 1897.8; DB 14; Length 6845;  
Best Local Similarity 96.8%; Pred. No. 0;  
Matches 2050; Conservative 11; Mismatches 43; Indels 13; Gaps 12;  
Qy 1 CTGCAGTGAATAATAAATGTTGTTGTCGAAATAGCCGCTTTTGAGATTTCTGTCCGCC 60  
Db 3005 CTGCAGTGAATAATAAATGTTGTTGTCGAAATAGCCGCTTTTGAGATTTCTGTCCGCC 3064  
Qy 61 GACTAAATTCATGTCGCGCATAGTGGTGTATTCGCGCATAGAGATGGCGATATTGAA 120  
Db 3065 GACTAAATTCATGTCGCGCATAGTGGTGTATTCGCGCATAGAGATGGCGATATTGAA 3124  
Qy 121 AAATCGATTTTGAATAATGCGCATATTGAAATGTCGCCGATGTGAGTTCTCTGTGTAAC 180

3125	AAATCGATATTGAAAATATGGCANATATGAAATGTGCCGATGTGAGTTTCTGTGTAAAC	3184
181	TGATATCGCCATTTTTCACAAAG-TGATTTTTTGGGCATACGCCGATATCTTGGCGATACGGC	239
3185	TGATATCGCCATTTTTCACAAAGTTGATTTTTTGGGCATACGCCGATATCTTGGCGATAC-GC	3243
240	TTATATCGTTTACGGGGGATGGCGATAGACGACTTTTGGCGACTTTGGCGGATTTCTGTGTGT	299
3244	TTATATCGTTTACGGGGGATGGCGATAGACGCCCTTTTGGTGACTTTGGCGGATTTCTGTGTGT	3303
300	CGCAATATATCGCAGTTTTCGATATAGGTGTGACAGCGATATGAGGCTATATCGCCGATAGAG	359
3304	CGCAATATATCGCAGTTTTCGATATAGGTGTGACAGCGATATGAGGCTATATCGCCGATAGAG	3363
360	CGCACATCAAGCTGGGCACATGGCCAAATGCATATCGATCTATACATTTGAAATCAATATTGGC	419
3364	CGCACATCAAGCTGGGCACATGGCCAAATGCATATCGATCTATACATTTGAAATCAATATTGGC	3423
420	AATTAGCCATATTAGTCAATTGGTTTATATAGGATAAATCAATATATTGGCTATTGGCCATTGC	4799
3424	CATTAGCCATATTATTCAATTGGTTTATATAGCATAAAATCAATATTGGCTATTGGCCATTGC	3483
480	ATACGTTGTATCTATATCATTAATATGACATTTATATTGGCTCATGTCCCAATATGACCCG	539
3484	ATACGTTGTATCTATATCATTAATATGACATTTATATTGGCTCATGTCCCAACATTTACCCG	3543
540	CATGTTGACATTTGATTTTACATAGTTATTAAATAGTAATCAATTTACGGGGTCAATTAGTTTC	599
3544	CATGTTGACATTTGATTTTACATAGTTATTAAATAGTAATCAATTTACGGGGTCAATTAGTTTC	3603
600	ATAGCCCATATATGAGGTTCCGGGTTACATAAATTACGGTAATATGGCCCGCTCG-TGAC	658
3604	ATAGCCCATATATGAGGTTCCGGGTTACATAAATTACGGTAATATGGCCCGCTCGGTGCAC	3663
659	CGCCCAAGACCCCGCCCATGACGTCATAATGACGTATGTTCCCATAGTAACGCCAA	718
3664	CGCCCAAGACCCCGCCCATGACGTCATAATGACGTATGTTCCCATAGTAACGCCAA	3723
719	TAGGGACTTTCCATTGACGTCAAATGGGTGGAGTATTTACGGTAATATGGCCCGCTCG	778
3724	TAGGGACTTTCCATTGACGTCNAATGGGTGGAGTATTTACGGTAATATGGCCCGCTCG	3783
779	TACATCAAGTGTATCATATGCCAAGTCCGGCCCGCTATTACGTCAAATGACGTAATATGG	838
3784	TACATCAAGTGTATCATATGCCAAGTAC-GCCCCCTATTGACGTCAATGACGTAATATGG	3842
839	CCGCCCTGGCATATTAGCCGAGTACATGACCTTACGGGACTTTCTACTTTGGCAGTACATC	898
3843	CCGCCCTGGCATATTAGCCGAGTACATGACCTTATGGGACTTTCTACTTTGGCAGTACATC	3902
899	TACGTATTAGTTCATCGCTATTACCATCGTATGGTTTTTGGCAGTACACCAATGGGCGT	958
3903	TACGTATTAGTTCATCGCTATTACCATCGTATGGTTTTTGGCAGTACATCAATGGGCGT	3962
959	GGATAGCGGTTTGACTCACCGGGATTTTCCAAAGTCTCCACCCCATATGACGTCAATGGGAGT	1018
3963	GGATAGCGGTTTGACTCACCGGGATTTTCCAAAGTCTCCACCCCATATGACGTCAATGGGAGT	4022
1019	TTGTTTTGGCACCAAAATCAACGGGACTTTTCCAAAATGTGTATATACCCGCCCGCTTG	1078
4023	TTGTTTTGGCACCAAAATCAACGGGACTTTTCCAAAATGTGTATACCAACTCCGCCCATATG	4082
1079	ACGCAATGGGCGGTAGCGGTGTACGGTGGGAGTCTATATAAGCAGAGCTCGTTTATGTG	1138
4083	ACGCAATGGGCGGTAGCGGTGTACGGTGGGAGTCTATATAAGCAGAGCTCGTTTATGTG	4142
1139	AAACCGTCAGATCGCTCGGAGACGCCATCCACGCTGTTTTTGAACCTCCATAGAAGACACCGG	1198
4143	AAACCGTCAGATCGCTCGGAGACGCCATCCACGCTGTTTTTGAACCTCCATAGAAGACACCGG	4202
1199	GACCGATCCAGCTTCGCGGCGCGGAAACGTTGTCATATGGAACGCGGATTTCCCGTGCACAG	1258
4203	GACCGATCCAGCTTCGCGGCGCGGAAACGTTGTCATATGGAACGCGGATTTCCCGTGCACAG	4262

[illegible]

## RESULT 6

RECD: 08-936-128A-1  
 ; Sequence 1, Application US/09996128A  
 ; Patent No. US20020150589A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Houghton, Alan  
 ; APPLICANT: Bergman, Phillip  
 ; APPLICANT: Wolchock, Jedd  
 ; TITLE OF INVENTION: Compositions fo  
 ; FILE REFERENCE: MSK.P-026-3  
 ; CURRENT APPLICATION NUMBER: US/09/9

; CURRENT FILING DATE: 2001-11-27  
; PRIOR APPLICATION NUMBER: US 09/627,694  
; PRIOR FILING DATE: 2000-07-28  
; PRIOR APPLICATION NUMBER: US 09/308,697  
; PRIOR FILING DATE: 1999-05-21  
; PRIOR APPLICATION NUMBER: PCT/US97/22669  
; PRIOR FILING DATE: 1997-12-10  
; PRIOR APPLICATION NUMBER: US 60/036,419  
; PRIOR FILING DATE: 1997-02-18  
; PRIOR APPLICATION NUMBER: US 60/032,535  
; PRIOR FILING DATE: 1996-12-10  
; PRIOR APPLICATION NUMBER: US 60/180,651  
; PRIOR FILING DATE: 2000-01-26  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1  
; LENGTH: 6408  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)-(7)  
; OTHER INFORMATION: vector containing human tyrosinase  
; US-09-996-128A-1

Query Match 80.1%; Score 1739.2; DB 9; Length 6408;  
Best Local Similarity 99.5%; Pred. No. 0;  
Matches 1780; Conservative 0; Mismatches 5; Indels 4; Gaps 4;  
  
QY 312 AGTTTCGATATAGGTGACAGAGATATGAGGCTATATCGCGATAGAGGCGACATCAAGC 371  
DB 2619 AGATCTGATATAGGTGACAGAGATATGAGGCTATATCGCGATAGAGGCGACATCAAGC 2678  
  
QY 372 TGGCACATGGCCAAATGATATGATGATCAATGAATCAATATTTGGCAATTTAGCCATAT 431  
DB 2679 TGGCACATGGCCAAATGATATGATGATCAATGAATCAATATTTGGCAATTTAGCCATAT 2738  
  
QY 432 TAGTCATTTGGTTATATAGCATAAATCAATATTTGGCTATTTGGCCATTTGCATACGTTGTATC 491  
DB 2739 TAGTCATTTGGTTATATAGCATAAATCAATATTTGGCTATTTGGCCATTTGCATACGTTGTATC 2798  
  
QY 492 TATATCAATAATGATACATTTATATTTGGCTCATGTTCCAAATGACCGCCATTTTGACATTT 551  
DB 2799 TATATCAATAATGATACATTTATATTTGGCTCATGTTCCAAATGACCGCCATTTTGACATTT 2858  
  
QY 552 GATTTATGATGATTTAAATAGTAATCAATTTACGGGTCATTAGTTTCATAGCCCATATA 611  
DB 2859 GATTTATGATGATTTAAATAGTAATCAATTTACGGGTCATTAGTTTCATAGCCCATATA 2918  
  
QY 612 TGGAGTTCGCGTTACATAAATTTACGGTAAATTTGGCCCGCCCTCG-TGACCGCCCAACGACC 670  
DB 2919 TGGAGTTCGCGTTACATAAATTTACGGTAAATTTGGCCCGCCCTCGCGCCCAACGACC 2978  
  
QY 671 CCGCGCCATTTGACGTCATATGACGATGATTTGCCATAGTAAACGCAATAGGACATTTCC 730  
DB 2979 CCGCGCCATTTGACGTCATATGACGATGATTTGCCATAGTAAACGCAATAGGACATTTCC 3038  
  
QY 731 ATTGACGTCATTTGGGTGGAGTATTTACGTTAACTTGGCCACTTTGGCAGTACATCAAGTGT 790  
DB 3039 ATTGACGTCATTTGGGTGGAGTATTTACGTTAACTTGGCCACTTTGGCAGTACATCAAGTGT 3098  
  
QY 791 ATCATATGCAAGTCCGCGCCCTTATTTGACGTCATATGACGTCATATGCGGTAATTTGGCCCGCCCTGGCAT 850  
DB 3099 ATCATATGCAAGTCCGCGCCCTTATTTGACGTCATATGACGTCATATGCGGTAATTTGGCCCGCCCTGGCAT 3157  
  
QY 851 TATGCCAGTACATGACCTTACGGACATTTCTTCTTGGCAGTACATCTACGATTTAGTC 910  
DB 3158 TATGCCAGTACATGACCTTACGGACATTTCTTCTTGGCAGTACATCTACGATTTAGTC 3217  
  
QY 911 ATCGCTATTTACCATGATGCGTTTGGCAGTACACCAATTTGGCGGTGATAGCGGTTT 970  
DB 3218 ATCGCTATTTACCATGATGCGTTTGGCAGTACACCAATTTGGCGGTGATAGCGGTTT 3277

QY 971 GACTCAGCGGGATTTCCAAGTCTCCACCCCAATTGACGTCATGGGAGTTTGTGTCAC 1030  
DB 3278 GACTCAGCGGGATTTCCAAGTCTCCACCCCAATTGACGTCATGGGAGTTTGTGTCAC 3337  
  
QY 1031 CAAAATCAACGGGACATTTCCAAAATGTCGTAATAACCCCGCCCGTTGACGCAAAATGGGC 1090  
DB 3338 CAAAATCAACGGGACATTTCCAAAATGTCGTAATAACCCCGCCCGTTGACGCAAAATGGGC 3397  
  
QY 1091 GGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTGTAGTAAACCGTCAGATC 1150  
DB 3398 GGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTGTAGTAAACCGTCAGATC 3457  
  
QY 1151 GCCTGGAGAGCCCATCCACGCTGTTTGTACCTCCATAGAGACACCGGGACCGATCCAGC 1210  
DB 3458 GCCTGGAGAGCCCATCCACGCTGTTTGTACCTCCATAGAGACACCGGGACCGATCCAGC 3517  
  
QY 1211 CTCGCGGCGCGGAACGGTGCATTTGGAAACGCGATTCCCGTGCAGAGATGACGTAAGT 1270  
DB 3518 CTCGCGGCGCGGAACGGTGCATTTGGAAACGCGATTCCCGTGCAGAGATGACGTAAGT 3577  
  
QY 1271 ACCGCTTATAGACTCTATAGGCAACACCCCTTTGGCTCTTATGCAATGCTATCTCTTTTGTG 1330  
DB 3578 ACCGCTTATAGACTCTATAGGCAACACCCCTTTGGCTCTTATGCAATGCTATCTCTTTTGTG 3637  
  
QY 1331 GCTTGGGCGCTATACACCCCGGC-TCCCTTATGCTATAGGTGATGCTATAGCTTAGCCCTAT 1389  
DB 3638 GCTTGGGCGCTATACACCCCGGCCTTCTTATGCTATAGGTGATGCTATAGCTTAGCCCTAT 3697  
  
QY 1390 AGGTGTGGGTATTGACCAATTTGACCACTCCCTTATTGGTGACGATACTTTCCATTAC 1449  
DB 3698 AGGTGTGGGTATTGACCAATTTGACCACTCCCTTATTGGTGACGATACTTTCCATTAC 3757  
  
QY 1450 TAAFTCCATAACATGGCTCTTTGGCAACAACTATCTTATTTGGCTATATGCAATACTCTGT 1509  
DB 3758 TAAFTCCATAACATGGCTCTTTGGCAACAACTATCTTATTTGGCTATATGCAATACTCTGT 3817  
  
QY 1510 CCTTCAGAGACTGACGAGCTCTGTATTTTACAGGATGGGTCCTTATTTATTATTAC 1569  
DB 3818 CCTTCAGAGACTGACGAGCTCTGTATTTTACAGGATGGGTCCTTATTTATTATTAC 3877  
  
QY 1570 AAATTCACATATACAAACGCGTCCCGTCCCGCAGTTTATTTAAACATAGCGTG 1629  
DB 3878 AAATTCACATATACAAACGCGTCCCGTCCCGCAGTTTATTTAAACATAGCGTG 3937  
  
QY 1630 GGATCTCCACGCAATCTCGGTAACGTTTCCGACATAGGCTCTTCTCCGTTAGCGCG 1689  
DB 3938 GGATCTCCACGCAATCTCGGTAACGTTTCCGACATAGGCTCTTCTCCGTTAGCGCG 3997  
  
QY 1690 GAGCTTCACATCCGAGCCCTGGTCCCATGCTCCAGGCGCTCATGCTCGCTCCGAGCT 1749  
DB 3998 GAGCTTCACATCCGAGCCCTGGTCCCATGCTCCAGGCGCTCATGCTCGCTCCGAGCT 4057  
  
QY 1750 CCTTGTCTTAAACAGTGGAGCCAGACTTAGGCAACAGCAATGCCACCAACCAACAGTG 1809  
DB 4058 CCTTGTCTTAAACAGTGGAGCCAGACTTAGGCAACAGCAATGCCACCAACCAACAGTG 4117  
  
QY 1810 TGCCGCAACAGGCGCTGGCGGTAGGTAATGTCGTAATAATGAGCTCGGAGATTTGGGCTC 1869  
DB 4118 TGCCGCAACAGGCGCTGGCGGTAGGTAATGTCGTAATAATGAGCTCGGAGATTTGGGCTC 4177  
  
QY 1870 GCACCG-TGACGAGATGGAGACTTAAGGCAAGGCGGAGAGAGATGACGAGCTGAG 1928  
DB 4178 GCACCGTGCAGCAGATGGAGACTTAAGGCAAGGCGGAGAGAGATGACGAGCTGAG 4237  
  
QY 1929 TTGTTGTATTCTGATAGAGTCAGAGGTAACTCCCGTTTCCGCTGCTGTTAACGGTGGAGG 1988  
DB 4238 TTGTTGTATTCTGATAGAGTCAGAGGTAACTCCCGTTTCCGCTGCTGTTAACGGTGGAGG 4297  
  
QY 1989 GCAGTGTAGTCTGACGAGTACTCGTTGTGCGCGCGCGCCACAGACATTAATAGCTGAC 2048  
DB 4298 GCAGTGTAGTCTGACGAGTACTCGTTGTGCGCGCGCGCCACAGACATTAATAGCTGAC 4357  
  
QY 2049 AGACTAACAGACTGTTCTTTCCATGGGTCTTTTCTGCACTCACCGTCC 2097

Db	4358	AGACTAACAGACTGTTCTTTCCATGGGTCTTTCTGCGTACCGTCC	4406
RESULT 7			
US-09-996-128A-2			
; Sequence 2, Application US/09996128A			
; Patent No. US20020150589A1			
; GENERAL INFORMATION:			
; APPLICANT: Houghton, Alan			
; APPLICANT: Bergman, Phillip			
; APPLICANT: Wolchok, Jedd			
; TITLE OF INVENTION: Compositions for treatment of Melanoma and Methods of Using Same			
; FILE REFERENCE: MSK P-026-3			
; CURRENT APPLICATION NUMBER: US/09/996,128A			
; CURRENT FILING DATE: 2001-11-27			
; PRIOR APPLICATION NUMBER: US 09/627,694			
; PRIOR FILING DATE: 2000-07-28			
; PRIOR APPLICATION NUMBER: US 09/308,697			
; PRIOR FILING DATE: 1999-05-21			
; PRIOR APPLICATION NUMBER: PCT/US97/22669			
; PRIOR FILING DATE: 1997-12-10			
; PRIOR APPLICATION NUMBER: US 60/036,419			
; PRIOR FILING DATE: 1997-02-18			
; PRIOR APPLICATION NUMBER: US 60/032,535			
; PRIOR FILING DATE: 1996-12-10			
; PRIOR APPLICATION NUMBER: US 60/180,651			
; PRIOR FILING DATE: 2000-01-26			
; NUMBER OF SEQ ID NOS: 2			
; SOFTWARE: PatentIn version 3.0			
; SEQ ID NO 2			
; LENGTH: 6485			
; TYPE: DNA			
; ORGANISM: Artificial Sequence			
; FEATURE:			
; NAME/KEY: misc feature			
; LOCATION: (1..7)			
; OTHER INFORMATION: vector containing murine tyrosinase			
US-09-996-128A-2			
Query Match 80.1%; Score 1739.2; DB 9; Length 6485;			
Best Local Similarity 99.5%; Pred. No. 0;			
Matches 1780; Conservative 0; Mismatches 5; Indels 4; Gaps 4;			
Qy	312	AGTTTGGATATAGGTGACAGACGATATAGAGCTATATCGCGATAGAGGCGACATCAAGC	371
Db	2619	AGATCTGATATAGGTGACAGACGATATAGAGCTATATCGCGATAGAGGCGACATCAAGC	2678
Qy	372	TGGCACATGGCCCAATGCATATCGATCTATACATTAATGAATCAATATTTGGCAATTAGCCATAT	431
Db	2679	TGGCACATGGCCCAATGCATATCGATCTATACATTAATGAATCAATATTTGGCAATTAGCCATAT	2738
Qy	432	TAGTCATTGGTTATATAGCATAAATCAATATTTGGCTATTTGGCCATTTGCATACGTTGTATC	491
Db	2739	TAGTCATTGGTTATATAGCATAAATCAATATTTGGCTATTTGGCCATTTGCATACGTTGTATC	2798
Qy	492	TATATCAATATATGATATATATTTGCTCATGTCCAAATATGACCGCAATGTTGACATT	551
Db	2799	TATATCAATATATGATATATATTTGCTCATGTCCAAATATGACCGCAATGTTGACATT	2858
Qy	552	GATTATAGCTAGTTATTAATAGTAATCAATTAATGAGGTGATTTAGTTTCATAGGCCCATATA	611
Db	2859	GATTATAGCTAGTTATTAATAGTAATCAATTAATGAGGTGATTTAGTTTCATAGGCCCATATA	2918
Qy	612	TGGAGTTCCCGGTTACATAAATCAATGAGTAAATGACCGCCCTCG-TGACCGCCCAACGACC	670
Db	2919	TGGAGTTCCCGGTTACATAAATCAATGAGTAAATGACCGCCCTCGTGGCTGACCGCCCAACGACC	2978
Qy	671	CCCGCCCAATGACGTCAATATATGACGTATGTTCCCATAGTAACGCCCAATAGGGACTTTCC	730
Db	2979	CCCGCCCAATGACGTCAATATATGACGTATGTTCCCATAGTAACGCCCAATAGGGACTTTCC	3038
Qy	731	ATTGACGTCAATGGGTGAGTATTTACGGTAAACTGGCCACTTGGCAGTACATCAAGTGT	790
Db	3039	ATTGACGTCAATGGGTGAGTATTTACGGTAAACTGGCCACTTGGCAGTACATCAAGTGT	3098
Qy	791	ATCATATGCCAAGTCCCGCCCCCTTATTGACGTCAATGACGGTAAATGCCCGCTGGCAT	850
Db	3099	ATCATATGCCAAGTCC-GCCCCCTTATTGACGTCAATGACGGTAAATGCCCGCTGGCAT	3157
Qy	851	TATGCCCAGTACATGACCTTTACGGGACTTTCTACTTTGGCAGTACATCTAGCTATTAGTC	910
Db	3158	TATGCCCAGTACATGACCTTTACGGGACTTTCTACTTTGGCAGTACATCTAGCTATTAGTC	3217
Qy	911	ATCGCTATTACCATGGTATGATCGGTTTGGCAGTACACCAATGGCGCTGGATACGGTTT	970
Db	3218	ATCGCTATTACCATGGTATGATCGGTTTGGCAGTACACCAATGGCGCTGGATACGGTTT	3277
Qy	971	GACTCAGCGGATTTCCAAAGTCTCCACCCATTGACGTCAATGGGAGTTGTTTGGCAC	1030
Db	3278	GACTCAGCGGATTTCCAAAGTCTCCACCCATTGACGTCAATGGGAGTTGTTTGGCAC	3337
Qy	1031	CAAAATCAACGGGACTTTTCCAAAATGTCGTAATAACCCCGCCCGTTGACGCAATGGGC	1090
Db	3338	CAAAATCAACGGGACTTTTCCAAAATGTCGTAATAACCCCGCCCGTTGACGCAATGGGC	3397
Qy	1091	GCTAGGGCTGTACGGTGGGAGTCTATATAAGCAGAGCTCGTTTGTAGTGAACCGTCAGATC	1150
Db	3398	GCTAGGGCTGTACGGTGGGAGTCTATATAAGCAGAGCTCGTTTGTAGTGAACCGTCAGATC	3457
Qy	1151	GCCTGGAGACGCCATCCACGCTGTTTGTGACCTCCATAGAAGACACCGGGACCGTCCAGC	1210
Db	3458	GCCTGGAGACGCCATCCACGCTGTTTGTGACCTCCATAGAAGACACCGGGACCGTCCAGC	3517
Qy	1211	CTCGCGCGCGGAAACGGTGCATTTGGAAACCGGATTTCCCGTGCACAAGAGTACGTAAGT	1270
Db	3518	CTCGCGCGCGGAAACGGTGCATTTGGAAACCGGATTTCCCGTGCACAAGAGTACGTAAGT	3577
Qy	1271	ACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGATGCTACTCTTTTGG	1330
Db	3578	ACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGATGCTACTCTTTTGG	3637
Qy	1331	GCTTGGGCGCTATACACCCCGCG-TCCTTATGCTATAGGTGATGATGATGATGATGATGAT	1389
Db	3638	GCTTGGGCGCTATACACCCCGCGCTCTTATGCTATAGGTGATGATGATGATGATGATGAT	3697
Qy	1390	AGGTGCGGTTATTGACCATTTATGACACTCCCTATTTGGTGGTACGATCTTTCCATTAC	1449
Db	3698	AGGTGCGGTTATTGACCATTTATGACACTCCCTATTTGGTGGTACGATCTTTCCATTAC	3757
Qy	1450	TAATCCATAACATGGGTCTTTGGCACAACTATCTTATTTGGCTATATGCCAATCTCTGT	1509
Db	3758	TAATCCATAACATGGGTCTTTGGCACAACTATCTTATTTGGCTATATGCCAATCTCTGT	3817
Qy	1510	CCTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGTCCCATTTATTATTATAC	1569
Db	3818	CCTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGTCCCATTTATTATTATAC	3877
Qy	1570	AAATTCAATATACAAACGCGCTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCT	1629
Db	3878	AAATTCAATATACAAACGCGCTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCT	3937
Qy	1630	GGATCTCCACGCAATCTCGGTTACGTTTCCGACATGGGTCTCTCTCCGTTAGCGCG	1689
Db	3938	GGATCTCCACGCAATCTCGGTTACGTTTCCGACATGGGTCTCTCTCCGTTAGCGCG	3997
Qy	1690	GAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGCTCATGTGCTCGCTCGGAGCT	1749
Db	3998	GAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGCTCATGTGCTCGCTCGGAGCT	4057
Qy	1750	CCTTGTCTTAAACAGTGGAGGCGAGCTTAGGACACAGCAAAATGCCCAACCAACAGTG	1809
Db	4058	CCTTGTCTTAAACAGTGGAGGCGAGCTTAGGACACAGCAAAATGCCCAACCAACAGTG	4117
Qy	1810	TGCGGCACAGGCGGTGGGTAGGTATGCTGTGAAATGAGCTCGGAGATGGGCTC	1869



Db 4118 TGCCGACACAGCCGCTGGCGTAGGGTATGTCTGTAATAATGAGCTCGAGATTGGGCTC 4177  
Qy 1870 GCACCG-TGACGCGATGGAAGACTTAAAGCAGCGGCGAGAAAGATGACGCGAGCTGAG 1928  
Db 4178 GCACCGCTGACGAGATGGAAGACTTAAAGGCGAGCGGCGAAGAGATGCGAGCGAGCTGAG 4237  
Qy 1929 TTGTTGTATTCTGATAAGAGTCAAGAGTCAAGAGTAACTCCGTTGCGGTGCTGTTAAACGGTGGAGG 1988  
Db 4238 TTGTTGTATTCTGATAAGAGTCAAGAGTAACTCCGTTGCGGTGCTGTTAAACGGTGGAGG 4297  
Qy 1989 GCAGTGTAGTCTGACGAGTACTGTTGCTGCGGCGCGGCCACACAGACATAATAGCTGAC 2048  
Db 4298 GCAGTGTAGTCTGACGAGTACTGTTGCTGCGGCGCGGCCACACAGACATAATAGCTGAC 4357  
Qy 2049 AGACTAAACAGACTGTTCTTTCCATGGGTCTTTTCTGCACTCACCGTCC 2097  
Db 4358 AGACTAAACAGACTGTTCTTTCCATGGGTCTTTTCTGCACTCACCGTCC 4406

RESULT 8  
US-09-886-942-21  
; Sequence 21, Application US/09886942  
; Patent No. US20020081708A1  
; GENERAL INFORMATION:  
; APPLICANT: FUNNENEN, JUHA  
; WRIGHT, ANNE  
; SEMYONOV, ANDREY  
; APPLICANT:  
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS  
; FILE REFERENCE: 02-031910US  
; CURRENT APPLICATION NUMBER: US/09/886,942  
; PRIOR FILING DATE: 2001-06-21  
; PRIOR APPLICATION NUMBER: 60/213,829  
; PRIOR FILING DATE: 2000-06-23  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 21  
; LENGTH: 1767  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Consensus  
; OTHER INFORMATION: sequence  
US-09-886-942-21

Query Match 79.2%; Score 1718.4; DB 9; Length 1767;  
Best Local Similarity 99.7%; Pred. No. 0; Mismatches 1; Indels 4; Gaps 4;  
Matches 1763; Conservative 0; Mismatches 1; Indels 4; Gaps 4;  
Qy 335 ATATGAGGCTATATCCCGATAGAGCGGACATCAAGCTGGCACATGGCCAATGCATATCG 394  
Db 1 ATATGAGGCTATATCCCGATAGAGCGGACATCAAGCTGGCACATGGCCAATGCATATCG 60  
Qy 395 ATCTATACATTGAATCAATATTGGCAATTAGCCATATTAGTCAATTGGTTATATAGCATAA 454  
Db 61 ATCTATACATTGAATCAATATTGGCAATTAGCCATATTAGTCAATTGGTTATATAGCATAA 120  
Qy 455 ATCAATATTGGTATTGGCCATTGTCATAGTGTATCTATATCAATAATGTACATTTAT 514  
Db 121 ATCAATATTGGTATTGGCCATTGTCATAGTGTATCTATATCAATAATGTACATTTAT 180  
Qy 515 ATTGGCTCATGTCCCAATATGACCGGCATGTTGACATTTGATTTAGCTAGTTTAAATAG 574  
Db 181 ATTGGCTCATGTCCCAATATGACCGGCATGTTGACATTTGATTTAGCTAGTTTAAATAG 240  
Qy 575 TAAATCAATTACGGGGTCAATTAGTTCATAGCCCATATATGGAGTTCGGGTACATAACTT 634  
Db 241 TAAATCAATTACGGGGTCAATTAGTTCATAGCCCATATATGGAGTTCGGGTACATAACTT 300  
Qy 635 ACGGTAAATGGCCGCTCG-TGACGCGCCCAAGACCCCGCCCATTTGACGTCATTAATG 693  
Db 301 ACGGTAAATGGCCGCTCGTGACCGCCCAAGACCCCGCCCATTTGACGTCATTAATG 360

Qy 694 ACGTATGTTCCCATAGTAACGCCAAATAGGAGACTTTTCCATTGACGTCATCGGTGGAGTAT 753  
Db 361 ACGTATGTTCCCATAGTAACGCCAAATAGGAGACTTTTCCATTGACGTCATCGGTGGAGTAT 420  
Qy 754 TTACGGTAAATCGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGGSCCCC 813  
Db 421 TTACGGTAAATCGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTCC-GCCCC 479  
Qy 814 TATTGACGTCAATGACCGGTAAATGGCCCGCTGGCATTATGCCCAGTACATGACTTTACG 873  
Db 480 TATTGACGTCAATGACCGGTAAATGGCCCGCTGGCATTATGCCCAGTACATGACTTTACG 539  
Qy 874 GGACTTTCTTACCTTGGCAGTACATCTACGTATTAGTTCATCGCTATTACCATGTTGATGCG 933  
Db 540 GGACTTTCTTACCTTGGCAGTACATCTACGTATTAGTTCATCGCTATTACCATGTTGATGCG 599  
Qy 934 GTTTTGGCAGTACACCAATGGGCGTGTATGCGGTTTGGACTCAGCGGGAATTTCCAAGTCT 993  
Db 600 GTTTTGGCAGTACACCAATGGGCGTGTATGCGGTTTGGACTCAGCGGGAATTTCCAAGTCT 659  
Qy 994 CCACCCCAATTGACGCTCAATGGGAGTTTGTGTCACCAAAAATCAACGGGACTTTTCAAAA 1053  
Db 660 CCACCCCAATTGACGCTCAATGGGAGTTTGTGTCACCAAAAATCAACGGGACTTTTCAAAA 719  
Qy 1054 ATGTCGTAATAACCCCGCCCGTTGACGCAAAATGGGCGGTAGGCGTGTACGTTGGAGGT 1113  
Db 720 ATGTCGTAATAACCCCGCCCGTTGACGCAAAATGGGCGGTAGGCGTGTACGTTGGAGGT 779  
Qy 1114 CTATATAAGCAGAGCTCGTTTAGTGAACCGTCAAGTCCCTGGAGAGCCCATCCACGCTG 1173  
Db 780 CTATATAAGCAGAGCTCGTTTAGTGAACCGTCAAGTCCCTGGAGAGCCCATCCACGCTG 839  
Qy 1174 TTTTGACCTCCATAGAAGACACCGGACCGATCCAGGCTCCGCGCGCGGGAACCGTGCAT 1233  
Db 840 TTTTGACCTCCATAGAAGACACCGGACCGATCCAGGCTCCGCGCGCGGGAACCGTGCAT 899  
Qy 1234 TGGAAACGGGATCCCGTGCCTGCAAGAGTGAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAA 1293  
Db 900 TGGAAACGGGATCCCGTGCCTGCAAGAGTGAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAA 959  
Qy 1294 CACCCCTTGGCTCTTATGATGCTATGCTATGCTTTTGGCTTTGGGCGCTTATACACCCCGCG 1353  
Db 960 CACCCCTTGGCTCTTATGATGCTATGCTATGCTTTTGGCTTTGGGCGCTTATACACCCCGCG 1019  
Qy 1354 -TCCTTATGCTATAGTGTAGTGTAGCTTATAGCTTATAGGTTGGTGTGGTTATTGACCATTTAT 1412  
Db 1020 TTCTTATGCTATAGTGTAGTGTAGCTTATAGCTTATAGGTTGGTGTGGTTATTGACCATTTAT 1079  
Qy 1413 TGACCACTCCCTTATGGTGAAGTATCTTCCATTAATACTAATCCATTAATGCTGCTTTGTC 1472  
Db 1080 TGACCACTCCCTTATGGTGAAGTATCTTCCATTAATACTAATCCATTAATACTGCTTTTTC 1139  
Qy 1473 CACAACATCTCTATTTGGCTATATGCCAATACTCTGCTCTTCCAGAGACTGACACGAGCTC 1532  
Db 1140 CACAACATCTCTATTTGGCTATATGCCAATACTCTGCTCTTCCAGAGACTGACACGAGCTC 1199  
Qy 1533 TGTATTTTACAGGATGGGTCCTCAATTTATTTATTTTACAAATTTACATATACAAACGCC 1592  
Db 1200 TGTATTTTACAGGATGGGTCCTCAATTTATTTATTTTACAAATTTACATATACAAACGCC 1259  
Qy 1593 GTCCCGCGTCCCGCAGTGTATTAACAATAGGCTGGGATCTCCACCGGAATCTCGGCT 1652  
Db 1260 GTCCCGCGTCCCGCAGTGTATTAACAATAGGCTGGGATCTCCACCGGAATCTCGGCT 1319  
Qy 1653 ACGTGTTCGACATGGGCTCTTCTCGGTAGCGCGAGCTTCCACATCCGAGCCCTGG 1712  
Db 1320 ACGTGTTCGACATGGGCTCTTCTCGGTAGCGCGAGCTTCCACATCCGAGCCCTGG 1379  
Qy 1713 TCCCATGCTCCAGCGGCTCATGTTGCTCGCTCGGCACTCTTTGCTCTTAACAGTGGAGGCC 1772  
Db 1380 TCCCATGCTCCAGCGGCTCATGTTGCTCGCTCGGCACTCTTTGCTCTTAACAGTGGAGGCC 1439  
Qy 1773 AGACTTAGGCACAGCAAAATGCCACCAACACAGTGTGCCGCAACAGCGCGTGGCGGTA 1832



Db 1440 AGACTTAGCGACAGACAAATGCGCCACCAACACAGTGTGCCGCAACAAGCCGCTGGCGGTA 1499  
Qy 1833 GGGTATGTCGTGAAATAGACTCGGAGATTGGGCTCGCACCG-TGACGCGAGATGGGAAGA 1891  
Db 1500 GGGTATGTCGTGAAATAGACTCGGAGATTGGGCTCGCACCGCTGACGCGAGATGGGAAGA 1559  
Qy 1892 CTTAAGCGAGCGGCGAGAGAGATGCGAGCGAGCTGAGTGTGTTATCTGATAGAGTCA 1951  
Db 1560 CTTAAGCGAGCGGCGAGAGAGATGCGAGCGAGCTGAGTGTGTTATCTGATAGAGTCA 1619  
Qy 1952 GAGGTAACTCCCGTTGCGGCTGTAAACGCTGGAGGCGAGTGTAGTCTGAGCAGTACTC 2011  
Db 1620 GAGGTAACTCCCGTTGCGGCTGTAAACGCTGGAGGCGAGTGTAGTCTGAGCAGTACTC 1679  
Qy 2012 GTTGCTGCGGCGCGCCACAGACATAATAGCTGACAGACTAAACAGACTGTTCTTTCC 2071  
Db 1680 GTTGCTGCGGCGCGCCACAGACATAATAGCTGACAGACTAAACAGACTGTTCTTTCC 1739  
Qy 2072 ATGGGTCTTTTCTGCACTCAGCTCCCTT 2099  
Db 1740 ATGGGTCTTTTCTGCACTCAGCTCCCTT 1767

## RESULT 9

US-09-886-942-14  
; Sequence 14, Application US/09886942  
; Patent No. US20020081708A1

## GENERAL INFORMATION:

APPLICANT: PUNNONEN, JUHA

WRIGHT, ANNE

SEMYONOV, ANDREY

APPLICANT:

TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS

FILE REFERENCE: 02-031910US

CURRENT APPLICATION NUMBER: US/09/886,942

CURRENT FILING DATE: 2001-06-21

PRIOR APPLICATION NUMBER: 60/213,829

PRIOR FILING DATE: 2000-06-23

NUMBER OF SEQ ID NOS: 40

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 14

LENGTH: 1767

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Synthetic

OTHER INFORMATION: oligonucleotide

US-09-886-942-14

Query Match 78.5%; Score 1702.4; DB 9; Length 1767;  
Best Local Similarity 99.2%; Pred. No. 0;  
Matches 1753; Conservative 0; Mismatches 11; Indels 4; Gaps 4;

Qy 335 ATATGAGCTATATCGCGATAGGCGACATCAAGCTGGCACATGGCCATGATATCG 394  
Db 1 ATATGAGCTATATCGCGATATAGGCGACATCAAGCTGGCACATGGCCATGATATCG 60  
Qy 395 ATCTATACATGAATCAATATTTGGCAATTAGCCATATTAGTCATTGGTTATATAGCATAA 454  
Db 61 ATCTATACATGAATCAATATTTGGCAATTAGCCATATTAGTCATTGGTTATATAGCATAA 120  
Qy 455 ATCAATATGGCTATGGCCATTCGACATACGTTGTATCTATATCAATAATATGATATAT 514  
Db 121 ATCAATATGGCTATGGCCATTCGACATACGTTGTATCTATATCAATAATATGATATAT 180  
Qy 515 ATTGGCTCATGTCGAATAGCCGCGATGTTGACATGATTATGACTAGTTATATATAG 574  
Db 181 ATTGGCTCATGTCGAATAGCCGCGATGTTGACATGATTATGACTAGTTATATATAG 240  
Qy 575 TAATCAATATGGGCTCATATAGTTTCATAGGCCCATATATGAGATTCCGCGTTTACATACTT 634  
Db 241 TAATCAATATGGGCTCATATAGTTTCATAGGCCCATATATGAGATTCCGCGTTTACATACTT 300

Qy 635 ACGTAAATGGCCGCTCG-TGACCGCCCAACGACCCCGCCCATTTGACGTCAATAATG 693  
Db 301 ACGTAAATGGCCGCTCGTGTACCGCCCAACGACCCCGCCCATTTGACGTCAATAATG 360  
Qy 694 ACGTATGTTCCCATAGTAACGCCAATAGGACTTTTCCATTTGACGTCAATGGTGGAGTAT 753  
Db 361 ACGTATGTTCCCATAGTAACGCCAATAGGACTTTTCCATTTGACGTCAATGGTGGAGTAT 420  
Qy 754 TTACGGTAAACTGCCCATTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCCCC 813  
Db 421 TTACGGTAAACTGCCCATTTGGCAGTACATCAAGTGTATCATATGCCAAGTCC-GCCCC 479  
Qy 814 TATTGACGTCAATGACGGTAAATGGCCCGCTGSCATTATGCCAGTACATGACTTACG 873  
Db 480 TATTGACGTCAATGACGGTAAATGGCCCGCTGSCATTATGCCAGTACATGACTTACG 539  
Qy 874 GGACTTTCTTACTTTGGCAGTACATCTACGTATTAGTTCATCGCTATTACCTGATGCG 933  
Db 540 GGACTTTCTTACTTTGGCAGTACATCTACGTATTAGTTCATCGCTATTACCTGATGCG 599  
Qy 934 GTTTTGGCAGTACACCAATGGGCGTGGATAGCGGTTTGACTCAGCGGGAATTTCCAAGTCT 993  
Db 600 GTTTAGGCGAGTACACCAATGGGCGTGGATAGCGGTTTGACTCAGCGGGAATTTCCAAGTCT 659  
Qy 994 CCACCCCATTTGACGTCAATGGGAGTTTGTGTTGGCACCAAAATCAACGGGACTTTCCAAA 1053  
Db 660 CCACCCCATTTGACGTCAATGGGAGTTTGTGTTGGCACCAAAATCAACGGGACTTTCCAAA 719  
Qy 1054 ATGTCGTAATAACCCCGCTTTGACGCAAAATGGGCGGTAGGCGTGTACGGTGGGAGGT 1113  
Db 720 ATGTCGTAATAACCCCGCTTTGACGCAAAATGGGCGGTAGGCGTGTACGGTGGGAGGT 779  
Qy 1114 CTATATAAGCAGAGCTCGTTTGTAGTGAACCGTCAAGTCCCTGGAGAGCCCATCCACGCTG 1173  
Db 780 CTATATAAGCAGAGCTCGTTTGTAGTGAACCGTCAAGTCCCTGGAGAGCCCATCCACGCTG 839  
Qy 1174 TTTTGACCTCCATAGAAGACACCGGGACCGATCAGGCTCGGGCCGGGAAACGGTGCAT 1233  
Db 840 TTTTGACCTCCATAGAAGACACCGGGACCGATCAGGCTCCATAGCCGGGAACGGTGCAT 899  
Qy 1234 TGGAAACGCGGATTTCCCGTCCCAAGAGTGAAGTAAAGTACCGCTTATAGACTCTATAGGCA 1293  
Db 900 TGGAAACGCGGATTTCCCGTCCCAAGAGTGAAGTAAAGTACCGCTTATAGACTCTATAGGCA 959  
Qy 1294 CACCCCTTTGGCTCTTATGCAATGCTATATCTGTTTGGCTTTGGGCGCTATACACCCCGC 1353  
Db 960 CACCCCTTTGGCTCTTATGCAATGCTATATCTGTTTGGCTTTGGGCGCTATACACCCCGC 1019  
Qy 1354 -TCCTTATGCTATAGGTGATGGTATAGCTTATAGCTTATAGCTTATAGGTGGGTTATGACCATAT 1412  
Db 1020 TTCTTATGCTATAGGTGATGGTATAGCTTATAGCTTATAGGTGGGTTATGACCATAT 1079  
Qy 1413 TGACCACTCCCTTATTTGGTGAACGATCTTTTCCATTACTTAATCCATACATGGCTCTTTGC 1472  
Db 1080 TGACCACTCCCTTATTTGGTGAACGATCTTTTCCATTACTTAATCCATACATGGCTCTTTGC 1139  
Qy 1473 CACAACTATCTTATTTGGCTTATGCAATACTCTGCTCTTTCAGAGACTGACACGGACTC 1532  
Db 1140 CACAACTATCTTATTTGGCTTATGCAATACTCTGCTCTTTCAGAGACTGACACGGACTC 1199  
Qy 1533 TGATTTTTCAGAGATGGGTCCTCAATTTATTTTCAAAATTCACATATCAACAACGCTC 1592  
Db 1200 TGATTTTTCAGAGATGGGTCCTCAATTTATTTTCAAAATTCACATATCAACAACGCTC 1259  
Qy 1593 GTCCCGCTGCGCGAGTTTATTAACATAGCGTGGGATCTCCACCGGAATCTCCGGT 1652  
Db 1260 GTCCCGAGTCCCGAGTTTATTAACATAGCGTGGGATCTCCACCGGAATCTCCGGT 1319  
Qy 1653 ACGTGTTCGGGACATGGGCTCTTCTCGGTAGGCGGAGCTTCCACATCCGAGCCCTGG 1712  
Db 1320 ACGTGTTCGGGACATGGGCTCTTCTCGGTAGGCGGAGCTTCCACATCCGAGCCCTGC 1379



Qy 1653 ACGTGTTCGGACATGGGCTCTTCTCCGGTAGCGGCGGAGCTTCCACATCGAGCCCTGG 1712  
Db 1320 ACGTGTTCGGACATGGGCTCTTCTCCGGTAGCGGCGGAGCTTCCACATCGAGCCCTGG 1379  
Qy 1713 TCCCATGCTCCAGCGCTCATGTCTCGCTGGCAGCTCCTTGTCTCTAAACAGTGGAGGCC 1772  
Db 1380 TCCCATGCTCCAGCGCTCATGTCTCGCTGGCAGCTCCTTGTCTCTAAACAGTGGAGGCC 1439  
Qy 1773 AGACTTAGGCACAGCAATGCCACCAACCAACCAAGTGTGCCGCAACAGGCCGTGGCGGTA 1832  
Db 1440 AGACTTAGGCACAGCAATGCCACCAACCAACCAAGTGTGCCGCAACAGGCCGTGGCGGTA 1499  
Qy 1833 GGGTATGTCTGAAATAGCTCGGAGATTGGGCTGCGACCG-TGAGCGAGATGGAAGA 1891  
Db 1500 GGGTATGTCTGAAATAGCTCGGAGCGGGCTTGGACCGCTGACGAGATGGAAGA 1559  
Qy 1892 CTTAAGCGAGCGGAGCAAGAGATGACAGGAGCTGAGTTGTGTATCTGATAAGAGTCA 1951  
Db 1560 CTTAAGCGAGCGGAGCAAGAGATGACAGGAGCTGAGTTGTGTATCTGATAAGAGTCA 1619  
Qy 1952 GAGTAACTCCCGTTGGGCTCTGTTAAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTC 2011  
Db 1620 GAGTAACTCCCGTTGGGCTCTGTTAAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTC 1679  
Qy 2012 GTTGTGCGCGCGCGGCCACAGACATAATAGCTGACAGACTAACAGACTGTTCTTTCC 2071  
Db 1680 GTTGTGCGCGCGCGGCCACAGACATAATAGCTGACAGACTAACAGACTGTTCTTTCC 1739  
Qy 2072 ATGGGTCTTTTCTGCAGTCAACGTCCTT 2099  
Db 1740 ATGGGTCTTTTCTGCAGTCAACGTCCTT 1767

## RESULT 11

US-09-886-942-16  
; Sequence 16, Application US/09886942  
; Patent No. US20020081708A1

## GENERAL INFORMATION:

; APPLICANT: PUNNONEN, JUHA

; WRIGHT, ANNE

; SEMYONOV, ANDREY

; APPLICANT:

; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS

; FILE REFERENCE: 02-031910US

; CURRENT APPLICATION NUMBER: US/09/886,942

; CURRENT FILING DATE: 2001-06-21

; PRIOR APPLICATION NUMBER: 60/213,829

; PRIOR FILING DATE: 2000-06-23

; NUMBER OF SEQ ID NOS: 40

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 16

; LENGTH: 1767

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

; OTHER INFORMATION: oligonucleotide

US-09-886-942-16

Query Match 78.4%; Score 1700.8; DB 9; Length 1767;

Best Local Similarity 99.1%; Pred. No. 0;

Matches 1752; Conservative 0; Mismatches 12; Indels 4; Gaps 4;

Qy 335 ATATGAGCTATATCGCGATAGAGGCGACATCAAGCTGGCAGCTGGCAATGCATATCG 394

Db 1 ATATGAGCTATATCGCGATAGAGGCGACATCAAGCTGGCAGCTGGCAATGCATATCG 60

Qy 395 ATCTATACATTTGAATCAATATTTGGCAATTAGCCATATTAGTCAATTTATATAGCATAA 454

Db 61 ATCTATACATTTGAATCAATATTTGGCAATTAGCCATATTAGTCAATTTATATAGCATAA 120

Qy 455 ATCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATATATATGATCAATTTAT 514

Db 121 ATCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATATATATGATCAATTTAT 180  
Qy 515 ATTGGCTCATGTCCCAATATGACCGCCATGTTGACATTTGATTGACTAGTATTATTAATAG 574  
Db 181 ATTGGCTCATGTCCCAATATGACCGCCATGTTGACATTTGATTGACTAGTATTATTAATAG 240  
Qy 575 TAATCAATTAAGGGGTCATTTAGTTCATAGCCCATATATGAGATTCGCGGTAGACATACTT 634  
Db 241 TAATCAATTAAGGGGTCATTTAGTTCATAGCCCATATATGAGATTCGCGGTAGACATACTT 300  
Qy 635 ACGTAAATGGCCGCGCTCG-TGACCGCCCAACGACCCCGCCCATGAGCTCAATAATG 693  
Db 301 ACGTAGATGCGCGCTCGCTGACCGCCCAACGACCCCGCCCATGAGCTCAATAATG 360  
Qy 694 ACGTAGTTCCTCCATAGTAAACGCAATAGGAGCTTTTCATTTGACGTCAATGGTGGAGTAT 753  
Db 361 ACGTAGTTCCTCCATAGTAAACGCAATAGGAGCTTTTCATTTGACGTCAATGGTGGAGTAT 420  
Qy 754 TTACGGTAAATCGCCCATTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGGCCGCC 813  
Db 421 TTACGGTAAATCGCCCATTTGGCAGTACATCAAGTGTATCATATGCCAAGTCC-GCCGCC 479  
Qy 814 TATTGACGTCAATGACGTAATAATGGCCGCTGSCATTATGCCAGTACATGACCTTACG 873  
Db 480 TATTGACGTCAATGACGTAATAATGGCCGCTGSCATTATGCCAGTACATGACCTTACG 539  
Qy 874 GGAATTTCTTCTTGGCAGTACATCTACGTATTAGTTCATCGCTATTACCATGGTGTATGCG 933  
Db 540 GGAATTTCTTCTTGGCAGTACATCTACGTATTAGTTCATCGCTATTACCATGGTGTATGCG 599  
Qy 934 GTTTTGGCAGTACACCAATGGGCGTGGATAGCGGTTTGGACTCAGCGGGAATTTCCAAGTCT 993  
Db 600 GTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGGACTCAGCGGGAATTTCCAAGTCT 659  
Qy 994 CCACCCCATTTGACGTCAATGGGAGTTGTTTGGCACCACCAAAATCAACGGGACTTTCCAAA 1053  
Db 660 CCACCCCATTTGACGTCAATGGGAGTTGTTTGGCACCACCAAAATCAACGGGACTTTCCAAA 719  
Qy 1054 ATGTGCTAATAACCCCGCTTTGACGCAAAATGGGCGGTAGGCGTGTACGGTGGGAGGT 1113  
Db 720 ATGTGCTAATAACCCCGCTTTGACGCAAAATGGGCGGTAGGCGTGTACGGTGGGAGGT 779  
Qy 1114 CTATATAAGCAGAGCTCGTTTATGTAACCGTCAAGTCCCTGGAGAGCCCATCCACGCTG 1173  
Db 780 CTATATAAGCAGAGCTCGTTTATGTAACCGTCAAGTCCCTGGAGAGCCCATCCACGCTG 839  
Qy 1174 TTTTGGCTCCATAGAGACACCGGACCGATCCAGCTCCGCGGCGGGAACGGTGCAT 1233  
Db 840 TTTTGGCTCCATAGAGACACCGGAGCCCATCCAGCTCCGCGGCGGGAACGGTGCAT 899  
Qy 1234 TGGAAACGCGGATTCGCCGTGCCAAGAGTACGTAAGTACCGCTTATAGACTCTATAGGCA 1293  
Db 900 TGGAAACGCGGATTCGCCGTGCCAAGAGTACGTAAGTACCGCTTATAGACTCTATAGGCA 959  
Qy 1294 CACCCCTTTGGCTCTTATGATGCTATGCTATGTTTGGCTTTGGGCGCTTATACACCCCGC 1353  
Db 960 CACCCCTTTGGCTCTTATGATGCTATGCTATGTTTGGCTTTGGGCGCTTATACACCCCGC 1019  
Qy 1354 -TCCTTATGCTATAGGTGATGTTATAGCTTAGCTTAGGTGGTATTGACCATTTAT 1412  
Db 1020 TTCTTATGCTATAGGTGATGTTATAGCTTAGCTTAGGTGGTATTGACCATTTAT 1079  
Qy 1413 TGACCACTCCCTTATTTGGTGACGATCTTTCCATTACTTAATCCATAACATGGCTCTTTGC 1472  
Db 1080 TGACCACTCCCTTATTTGGTGACGATCTTTCCATTACTTAATCCATAACATGGCTCTTTGC 1139  
Qy 1473 CACAACTATCTTATTTGGCTATATGCAAACTCTGCTCTTTCAGAGACTGACACGGACTC 1532  
Db 1140 CACAACTATCTTATTTGGCTATATGCAAACTCTGCTCTTTCAGAGACTGACACGGACTC 1199  
Qy 1533 TGATATTTTTCAGAGTGGGCTCCCATTTATTTTACAAATTTACATATATCAATCAACACGCC 1592

Db 1200 TGTATTTTTCAGAGTGGGCTCATTTATTTATTTTACAAATTCACATATACAAACAGCC 1259  
Qy 1593 GTCCCCCGTCCCGCAGTTTTTATTAACATAGGTTGGGATCTCCAGCGAATCTCGGGT 1652  
Db 1260 GTCCCCCGTCCCGCAGTTTTTATTTAAACATAGCGTGGGATCTCCAGCGAATCTCGGGT 1319  
Qy 1653 ACGTGTTCGGGACATGGGCTCTTCTCCGGTAGCGCGGAGCTTCCACATCCGAGCCCTGG 1712  
Db 1320 ACGTGTTCGGGACATGGGCTCTTCTCCGGTAGCGCGGAGCTTCCACATCCGAGCCCTGG 1379  
Qy 1713 TCCCATGCTCCAGCGGCTCATGTCGTCTGGCAGCTCTTGTCTTAAACAGTGGAGGCC 1772  
Db 1380 TCCCATGCTCCAGCGGCTCATGTCGTCTGGCAGCTCTTGTCTTAAACAGTGGAGGCC 1439  
Qy 1773 AGACTTAGGCACAGCACAAATGCCACACACAGTGGCGGAGTGGCGGAGTGGCGGTA 1832  
Db 1440 AGACTTAGGCACAGCACAAATGCCACACACAGTGGCGGAGTGGCGGAGTGGCGGTA 1499  
Qy 1833 GGGTATGTCTGAAATAGAGCTCGGAGATTGGGCTCGACCG-TGACGCAGATGGAGA 1891  
Db 1500 GGGTATGTCTGAAATAGAGCTCGGAGATTGGGCTCGACCGTGCAGAGATGGAGA 1559  
Qy 1892 CTTAAGGCAGCGGACAGAGATGCGAGCGAGCTGAGTGTGTTATTTCTGATAGAGTCA 1951  
Db 1560 CTTAAGGCAGCGGACAGAGATGCGAGCGAGCTGAGTGTGTTATTTCTGATAGAGTCA 1619  
Qy 1952 GAGGTAACTCCCGTTGCGGTCTGTTAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTC 2011  
Db 1620 GAGGTAACTCCCGTTGCGGTCTGTTAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTC 1679  
Qy 2012 GTTGCTGCGCGCGGCCACACAGACATAATAGCTGACAGACTTAACAGACTGTTCCTTTCC 2071  
Db 1680 GTTGCTGCGCGCGGCCACACAGACATAATAGCTGACAGACTTAACAGACTGTTCCTTTCC 1739  
Qy 2072 ATGGGTCTTTCTGAGTCAACCGTCTT 2099  
Db 1740 ATGGGTCTTTCTGAGTCAACCGTCTT 1767

RESULT 12

US-09-886-942-5

Sequence 5, Application US/09886942

Patent No. US20020081708A1

GENERAL INFORMATION:

APPLICANT: PUNNONEN, JUHA

WRIGHT, ANNE

SEMIONOV, ANDREY

APPLICANT:

TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS

FILE REFERENCE: 02-031910US

CURRENT APPLICATION NUMBER: US/09/886,942

CURRENT FILING DATE: 2001-06-21

PRIOR APPLICATION NUMBER: 60/213,829

PRIOR FILING DATE: 2000-06-23

NUMBER OF SEQ ID NOS: 40

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 5

LENGTH: 1767

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Synthetic

OTHER INFORMATION: oligonucleotide

US-09-886-942-5

Query Match 78.2%; Score 1696; DB 9; Length 1767;  
Best Local Similarity 98.9%; Pred. No. 0;  
Matches 1749; Conservative 0; Mismatches 15; Indels 4; Gaps 4;

Qy 335 ATATGAGGCTATATCGCCGATAGAGCGGACATCAAGCTGGCCACATGGCCCAATGCATATCG 394  
Db 1 ATATGAGGCTATATCGCCGATAGAGCGGACATCAAGCTGGCCACATGGCCCAATGCATATCG 60

Qy 395 ATCTATACATTTGAATCAATATTCGCAATTTAGCCATATTTAGTCTATTTGGTTATATAGCATAA 454  
Db 61 ATCTATACATTTGAATCAATATTTAGCCATATTTAGTCTATTTGGTTATATAGCATAA 120  
Qy 455 ATCAATATTTGGCTATTTGGCCATTTGCATAGCTTGTATCTATATATATATATATATATATAT 514  
Db 121 ATCAATATTTGGCTATTTGGCCATTTGCATAGCTTGTATCTATATATATATATATATATATAT 180  
Qy 515 ATTGGCTCATGTCCAAATATGACCGCCATTTGACATTTGATTTAGCTAGTATTTAATATAG 574  
Db 181 ATTGGCTCATGTCCAAATATGACCGCCATTTGACATTTGATTTAGCTAGTATTTAATATAG 240  
Qy 575 TAATCAATATAGGGGTCATTTAGTTATAGCCCATATATATGAGGTTCCCGTTTACATACTT 634  
Db 241 TAATCAATATAGGGGTCATTTAGTTATAGCCCATATATATGAGGTTCCCGTTTACATACTT 300  
Qy 635 ACGTAAATGGCCGCGCTCG-TGACCGCCCAACAGCCCGCCCATTCAGTCAATCAATATG 693  
Db 301 ACGTAAATGGCCGCGCTCGTACCGCCCAACAGCCCGCCCATTTGACGTCAATCAATATG 360  
Qy 694 ACGTATGTTCCTTCCATAGTAAACGCAATAGGGACTTTTCCATTTGACGTCAATGGTGGAGTAT 753  
Db 361 ACGTATGTTCCTTCCATAGTAAACGCAATAGGGACTTTTCCATTTGACGTCAATGGTGGAGTAT 420  
Qy 754 TTACGGTAAACTGCCCCATTTGGCAGTACATCAAGTGTATCATATGCCAAGTAC-GCCCC 813  
Db 421 TTACGGTAAACTGCCCCATTTGGCAGTACATCAAGTGTATCATATGCCAAGTAC-GCCCC 479  
Qy 814 TATTTAGCTCAATGACCGTAAATGGCCGCGCTGSCATTTATGCCACCAAAATCAACGGGACTTTC 873  
Db 480 TATTTAGCTCAATGACCGTAAATGGCCGCGCTGSCATTTATGCCACCAAAATCAACGGGACTTTC 539  
Qy 874 GGACTTTTCTTACTTTGGCAGTACATCTACGTATTAGTTCATCGCTATTACCATTTGGTGGAGT 933  
Db 540 GGACTTTTCTTACTTTGGCAGTACATCTACGTATTAGTTCATCGCTATTACCATTTGGTGGAGT 599  
Qy 934 GTTTTGGCAGTACACCAATGGCGGTGATAGCGGTTTGTGCTCAGCGGAGTATTCACAGTCT 993  
Db 600 GTTTTGGCAGTACACCAATGGCGGTGATAGCGGTTTGTGCTCAGCGGAGTATTCACAGTCT 659  
Qy 994 CCACCCCATTTGACGTCAATGGGAGTTTGTGTCACCAAAATCAACGGGACTTTCACAA 1053  
Db 660 CCACCCCATTTGACGTCAATGGGAGTTTGTGTCACCAAAATCAACGGGACTTTCACAA 719  
Qy 1054 ATGTCGTAATAACCCCGCCGTTGACGCAATGGCGGTAGGCGTGTACGGTGGGAGGT 1113  
Db 720 ATGTCGTAATAACCCCGCCGTTGACGCAATGGCGGTAGGCGTGTACGGTGGGAGGT 779  
Qy 1114 CTATATAGCAGAGCTCGTTTGTAGTGAACCGTCAAGTCCCTGGAGAGCCCATCCACGCTG 1173  
Db 780 CTATATAGCAGAGAGCTCGTTTGTAGTGAACCGTCAAGTCCCTGGAGAGAGCCCATCCACGCTG 839  
Qy 1174 TTTTGACCTCCATAGAGACACCGGGACCGATCCAGCCCTCCGCGCGCGGGAACCGTGCAT 1233  
Db 840 TTTTGACCTCCATAGAGACACCGGGACCGATCCAGCCCTCCGCGCGCGGGAACCGTGCAT 899  
Qy 1234 TGGAAACGCGGATTCCTCCGTCGCAAGTGAAGTACCGGCTATAGACTCTATAGGCA 1293  
Db 900 TGGAAACGCGGATTCCTCCGTCGCAAGTGAAGTACCGGCTATAGACTCTATAGGCA 959  
Qy 1294 CACCCCTTTGGCTCTTATGCAATGCTATCTGTTTTTGGCTTTGGGCTTATACACCCCGC 1353  
Db 960 CACCCCTTTGGCTCTTATGCAATGCTATCTGTTTTTGGCTTTGGGCTTATACACCCCGC 1019  
Qy 1354 -TCCTTATGCTATAGGTGATGATAGCTTAGCCCTATAGGTGTGGTTATTTGACCATTAT 1412  
Db 1020 TTCTTATGCTATAGGTGATGATAGCTTAGCCCTATAGGTGTGGTTATTTGACCATTAT 1079  
Qy 1413 TGACCACTCCCGTATTTGGTGAAGTACTTTTCCATTTACTTAAATCCCAATATATATATATATAT 1472  
Db 1080 TGACCACTCCCGTATTTGGTGAAGTACTTTTCCATTTACTTAAATCCCAATATATATATATATAT 1139  
Qy 1473 CACAACTATCTCTATTGGCTATATGCCAATATCTCTGTCTCTCAGAGAGTGCACGAGCTC 1532

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Db 1140 CACAACTAATCTATTTGGCTATATGCCAATATCTCTGCTTTTCAGAGACTGACACGGACTC 1199
Qy 1533 TGTATTTTTCAGAGATGGGGTCCCATTTATTTATTTTACAAATTCACATATACAAACAGGCC 1592
Db 1200 TGTATTTTTCAGAGATGGGGTCTCATTTATTTTACAAATTCACATATACAAACAGGCC 1259
Qy 1593 GTCCCGCGTCCCGAGGTTTTTATTAACATAGAGTGGGATCTCCACGGCAATCTCGGGT 1652
Db 1260 GTCCCGCGTCCCGAGGTTTTTATTAACATAGAGTGGGATCTCCACGGCAATCTCGGGT 1319
Qy 1653 ACGTGTTCGGACATGGGCTCTCTCCGGTAGCGCGGAGCTTCCACATCCGAGCCCTGG 1712
Db 1320 ACGTGTTCGGACATGGGCTCTCTCCGGTAGCGCGGAGCTTCCACATCCGAGCCCTGG 1379
Qy 1713 TCCCATGCTCCAGCGGCTCATGTGCTCGGCGAGCTCCTTGCTCTTAACAGTGGAGGCC 1772
Db 1380 TCCCATGCTCCAGCGGCTCATGTGCTCGGCGAGCTCCTTGCTCTTAACAGTGGAGGCC 1439
Qy 1773 AGACTTAGGCHACAGCAATGCCCAACCAACCAAGTGTGCGGCAAGAGCGGTGGCGGTA 1832
Db 1440 AGACTTAGGCHACAGCAATGCCCAACCAACCAAGTGTGCGGCAAGAGCGGTGGCGGTA 1499
Qy 1833 GGGTATGTGCTGAAATGAGCTCGGAGATTGGGCTCGCACCG-TGACGCGAGATGGAAGA 1891
Db 1500 GGGTATGTGCTGAAATGAGCTCGGAGAGCGGGCTTGCAACCGCTGACGCGAGATGGAAGA 1559
Qy 1892 CTTAAGGCGAGCGGCGAGAGATGCGAGGAGCTGAGTTGTTGTTATCTGATAGAGTCA 1951
Db 1560 CTTAAGGCGAGCGGCGAGAGATGCGAGGAGCTGAGTTGTTGTTATCTGATAGAGTCA 1619
Qy 1952 GAGTAACTCCGTTGCGGCTGCTTTAAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTC 2011
Db 1620 GAGTAACTCCGTTGCGGCTGCTTTAAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTC 1679
Qy 2012 GTTGCTCGCGCGCGCGCCACGACATATAGCTGACAGACTACAGACTGTTCCCTTCC 2071
Db 1680 GTTGCTCGCGCGCGCGCCACGACATATAGCTGACAGACTACAGACTGTTCCCTTCC 1739
Qy 2072 ATGGGTCTTTTCTGCAGTACCGTCCCTT 2099
Db 1740 ATGGGTCTTTTCTGCAGTACCGTCCCTT 1767
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## RESULT 13

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US-10-446-629-2
; Sequence 2, Application US/10446629
; Publication No. US20040110295A1
; GENERAL INFORMATION:
; APPLICANT: Punnonen, Juha
; APPLICANT: Apt, Doris
; APPLICANT: Whalen, Robert Gerald
; TITLE OF INVENTION: NUCLEIC ACID VECTORS
; FILE REFERENCE: 0328.210US
; CURRENT APPLICATION NUMBER: US/10/446,629
; CURRENT FILING DATE: 2003-05-28
; PRIOR APPLICATION NUMBER: US 60/384,002
; PRIOR FILING DATE: 2002-05-28
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 3879
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: pmv10.1-shuffled CMV DNA expression vector
US-10-446-629-2
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Query Match 78.1%; Score 1694.6; DB 17; Length 3879;
Best Local Similarity 98.4%; Pred. No. 0;
Matches 1753; Conservative 0; Mismatches 24; Indels 4; Gaps 4;
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Db 2160 CCAATGCAATCGATCTATACATTTGAATCAATATTTGGCAATTTAGCCATATTTATTCATTTGG 2219
Qy 442 TTATATAGCATAAATAATCAATATTTGGCTATTTGGCCATTTGCATACATCGTTGTATCTATATCATAA 501
Db 2220 TTATATAGCATAAATAATCAATATTTGGCTATTTGGCCATTTGCATACATCGTTGTATCGTATCATAA 2279
Qy 502 TATGTACATTTATTTGGCTCATGTCCAATATGACCGCCATTTGACATTTGATTTATTTGAC 561
Db 2280 TATGTACATTTATTTGGCCCATGTCCAATATGACCGCCATTTGACATTTGATTTATTTGAC 2339
Qy 562 TAGTTATTAATAGTAATCAATTTACGGGGTCATTTAGTTTCATAGCCCATATATGAGAGTTCCCG 621
Db 2340 TAGTTATTAATAGTAATCAATTTACGGGGTCATTTAGTTTCATAGCCCATATATGAGAGTTCCCG 2399
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Db 2460 GACGTCAATATGACGTATGTTCCCATAGTAACGCCCAATAGGGAATTTCCATTTACACGTCA 2519
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Db 2520 ATGGGTGGAGTATTTACGGTAAACTTGCCCACTTTGGCAGTAGTACATCAAGTGTATCATATGCC 2579
Qy 801 AAGTCCGGCCCCCTTATTTGACGTCAATGACGGTAAATGGCCCGCTGGCATTTATGCCCAGT 860
Db 2580 AAGTCC-GCCCCCTTATTTGACGTCAATGACGGTAAATGGCCCGCTGGCATTTATGCCCAGT 2638
Qy 861 ACATGACCTTTACGGGACTTTTCTACTTTGGCAGTAGTACATCTACGTATTTAGTTCATCGCTATTA 920
Db 2639 ACATGACCTTTACGGGACTTTTCTACTTTGGCAGTAGTACATCTACGTATTTAGTTCATCGCTATTA 2698
Qy 921 CCATGTTGATGCGGTTTGGCAGTAGTACCAATGGGCGTGATAGCGGTTTGACTTCACGGG 980
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Qy 981 GATTTCCAGTCTCCACCCCAATTTGACGTCAATGGGAGTTGTTTGTGGCACAACAAATCAAC 1040
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Qy 1041 GGGACTTTCCAAATGTCGTAAATAACCCCGCCCGCTTGACGCAAAATGGGCGTAGGCGTG 1100
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Db 2999 GGGAAACGGTGCATTTGMAACCGGATTTCCCGTGGCAAGAGTAGTACGTAAGTACCGCTTATA 3058
Qy 1281 GACTCTATAGGCACACCCCTTTTGCTCTTATGATGCTACTTGTGTTTTTGGCTTTGGGGCC 1340
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Qy 1341 TATACACCCCGCCG-TCCTTATGCTATAGGTGATGGTATAGCTTAGCCCTATAGGTGTGGGT 1399
Db 3119 TATACACCCCGCCGTTCTTATGCTATAGGTGATGGTATAGCTTAGCCCTATAGGTGTGGGT 3178
Qy 1400 TATTGACCATTTATGACCACTCCCTTATTTGGTGACGATACCTTTCCCATTTACTTAATCCATAA 1459
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Db 3179 TATTGACCAATTATTGACCACTCCCTATTGTTGAGATACATTTTCCATTTACTAAATCCATAA 3238  
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Db 3239 CATGGCTCTTTGGCCAACTATCTCTATTGGCTATATGCCAATACTCTGTCTCTTCAGAGA 3298  
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Db 3299 CTGACACGGACTCTGTATTTTACAGGATGGGTCCCATTTTATTATTACAAATTCACAT 3358  
Qy 1580 ATACAAACACGGCTCCCGTGGCCGAGTTTTTATTAAACATAGCGTGGATCTCCAC 1639  
Db 3359 ATACAAACACGGCTCCCGTGGCCGAGTTTTTATTAAACATAGCGTGGATCTCCAC 3418  
Qy 1640 GCGAATCTCGGCTAGCTGTCCGACATGGCTCTTCTCGGTAGCGCGAGCTTCCAC 1699  
Db 3419 GCGAATCTCGGCTAGCTGTCCGACATGGCTCTTCTCGGTAGCGGTGGGCTTCCAC 3478  
Qy 1700 ATCCGAGCCCTGGTCCCATGGCTCCAGCGGCTCATGTFCTCGGCAGCTCCTTGTCTCT 1759  
Db 3479 ATCCGAGCCCTGGTCCCATGGCTCCAGCGACTCATGTTGTTCTCGGCAGCTCCTTGTCTCT 3538  
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Db 3539 AACAGTGAGCCAGACTTAGGCACAGACATGCCACCAACCAAGTGTGCGGCACAA 3598  
Qy 1820 GGCGTGGCGGTAGGCTATGTCTGAAATGAGCTCGGAGATTGGGCTCGCACCG-TGA 1878  
Db 3599 GGCGTGGCGGTAGGCTATGTCTGAAATGAGCTCGGAGATCGGGCTCGCACCGTGA 3658  
Qy 1879 CGCAGATGGAAGACTTAAGGCAGCGGCAGAGAAGATCAGGCAGCTGAGTTGTGTATT 1938  
Db 3659 CGCAGATGGAAGACTTAAGGCAGCGGCAGAGAAGATCAGGCAGCTGAGTTGTGTATT 3718  
Qy 1939 CTGATAAGAGTCAGAGTAATCCCGTTGGCGTGTCTTAACGTTGGAGGCGAGTGTAGT 1998  
Db 3719 CTGATAAGAGTCAGAGTAATCCCGTTGGCGTGTCTTAACGTTGGAGGCGAGTGTAGT 3778  
Qy 1999 CTGACAGTACTCTGTTGCTGCGCGCGCCAGCACAGACATAATAGCTCAGACACTAAACAG 2058  
Db 3779 CTGACAGTACTCTGTTGCTGCGCGCGCCAGCACAGACATAATAGCTCAGACACTAAACG 3838  
Qy 2059 ACTGTTCTTTCCATGGTCTTTTCTGCAGTCACCGTCTCTT 2099  
Db 3839 ACTGTTCTTTCCATGGTCTTTTCTGCAGTCACCGTCTCTT 3879

RESULT 14

US-10-446-629-3  
; Sequence 3, Application US/10446629  
; Publication No. US20040110295A1  
; GENERAL INFORMATION:  
; APPLICANT: Punnonen, Juha  
; APPLICANT: Apt, Doris  
; APPLICANT: Whalen, Robert Gerald  
; TITLE OF INVENTION: NUCLEIC ACID VECTORS  
; FILE REFERENCE: 0328.210US  
; CURRENT APPLICATION NUMBER: US/10/446,629  
; CURRENT FILING DATE: 2003-05-28  
; PRIOR APPLICATION NUMBER: US 60/384,002  
; PRIOR FILING DATE: 2002-05-28  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 4790  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: PMV10.1-CD28BP DNA expression vector  
US-10-446-629-3

Query Match 78.1%; Score 1694.6; DB 17; Length 4790;  
Best Local Similarity 98.4%; Pred. No. 0;

Matches 1753; Conservative 0; Mismatches 24; Indels 4; Gaps 4;  
Qy 322 TAGTGACAGACGATGAGGCTATATCGCCGATAGAGGCGACATCAAGCTGGCACATGG 381  
Db 3011 TTGGTCTGATATCATATGAGGCTATATCGCCGATAGAGGCGACATCAAGCGGACATGG 3070  
Qy 382 CCAATGCAATTCGATCTATACATTTGAATCAATATTGGCAATTAGCCATATTAGTCATTTG 441  
Db 3071 CCAATGCAATTCGATCTATACATTTGAATCAATATTGGCAATTAGCCATATTATTTCATTGG 3130  
Qy 442 TTATATAGCAATAATCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATAA 501  
Db 3131 TTATATAGCAATAATCAATATTGGCTATTGGCCATTGCATACGTTGTATCGTATCATAA 3190  
Qy 502 TATGTACATTTATATTGGCTCATGTCCAAATATGACCCCATTTGTGACATTTATTTCAC 561  
Db 3191 TATGTACATTTATATTGGCCCATGTCCAAATATGACCCCATTTGTGACATTTATTTCAC 3250  
Qy 562 TAGTTATTAATAGTAATCAATTTACGGGTCAATTAGTTTCATAGCCCATATATGAGTTCCG 621  
Db 3251 TAGTTATTAATAGTAATCAATTTACGGGTCAATTAGTTTCATAGCCCATATATGAGTTCCG 3310  
Qy 622 CGTTACATAACTTACGGTAATGGCCCGCTCG-TGACCGCCCAACGACCCGCCCATTT 680  
Db 3311 CGTTACATAACTTACGGTAATGGCCCGCTCG-TGACCGCCCAACGACCCGCCCATTT 3370  
Qy 681 GACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTTCCATTTGACGTCA 740  
Db 3371 GACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTTCCATTTGACGTCA 3430  
Qy 741 ATGGGTGGAGTATTTACGGTAATGGCCCACTTGGCAGTACATCAAGTGTATCATATGCC 800  
Db 3431 ATGGGTGGAGTATTTACGGTAATGGCCCACTTGGCAGTACATCAAGTGTATCATATGCC 3490  
Qy 801 AAGTCCCGCCCTCTTATGACGTCAATGACGGTAATGGCCCGCTGCGCATTTATGCCAGT 860  
Db 3491 AAGTCC-GCCCTCTTATGACGTCAATGACGGTAATGGCCCGCTGCGCATTTATGCCAGT 3549  
Qy 861 ACATGACCTTACGGGACTTTTCTTACTTGGCAGTACATCTACGTATTAGTTCATCTATTA 920  
Db 3550 ACATGACCTTACGGGACTTTTCTTACTTGGCAGTACATCTACGTATTAGTTCATCTATTA 3609  
Qy 921 CCATGTTGATGCGGTTTTTGGCAGTACACCAATGGCGGTGAGTAGCGGTTTGACTCACGG 980  
Db 3610 CCATGTTGATGCGGTTTTTGGCAGTACATCAATGGCGGTGAGTAGCGGTTTGACTCACGG 3669  
Qy 981 GATTTCCAGTCTCCACCCCATTTGACGTCAATGGGAGTTGTTTTGGCACCACAAATCAAC 1040  
Db 3670 GATTTCCAGTCTCCACCCCATTTGACGTCAATGGGAGTTGTTTTGGCACCACAAATCAAC 3729  
Qy 1041 GGGACTTTTCCAAAATGTCGTAATAACCCCGCCCGTTTGACGCAATGGCGGTAGGCGTG 1100  
Db 3730 GGGACTTTTCCAAAATGTCGTAATAACCCCGCCCGTTTGACGCAATGGCGGTAGGCGTG 3789  
Qy 1101 TACGGTGGAGGCTTATATAAGCAGAGCTGTTTAGTGAACCCGTCAGATCCCTGGAGAC 1160  
Db 3790 TACGGTGGAGGCTTATATAAGCAGAGCTGTTTAGTGAACCCGTCAGATCCCTGGAGAC 3849  
Qy 1161 GGCATCCACGCTGTTTTGACCTCCATAGACACCGGACCGATCCAGCCCTCCGCGGCC 1220  
Db 3850 GGCATCCACGCTGTTTTGACCTCCATAGACACCGGACCGATCCAGCCCTCCGCGGCC 3909  
Qy 1221 GGGAAACGCTGATTGGAAACCGGATTCCTCCGTGCCAAGAGTGACGTAAAGTACCCTATA 1280  
Db 3910 GGGAAACGCTGATTGGAAACCGGATTCCTCCGTGCCAAGAGTGACGTAAAGTACCCTATA 3969  
Qy 1281 GACTCTATAGGCACACCCCTTTTGGCTCTTATGCAATGCTATATCTGTTTTTGGCTTGGGCC 1340  
Db 3970 GACTCTATAGGCACACCCCTTTTGGCTCTTATGCAATGCTATATCTGTTTTTGGCTTGGGCC 4029  
Qy 1341 TATACACCCCGC-TCCTTATGCTATAGGTGATAGTATAGCTTACCTATATAGGTGTGGGT 1399  
Db 4030 TATACACCCCGCTTCCTTATGCTATAGGTGATAGTATAGCTTACCTATATAGGTGTGGGT 4089

QY 1400 TATTGACCACTATTGACCACTCCCTATTGCTGAGCATCTTCCATTACTTAATCCATAA 1459  
DB 4090 TATTGACCACTATTGACCACTCCCTATTGCTGAGCATCTTCCATTACTTAATCCATAA 4149  
QY 1460 CATGGCTCTTTGGCCACCACTACTCTCTATTGGCTATATGCCAATACTCTGTCTCTTCAGAGA 1519  
DB 4150 CATGGCTCTTTGGCCACCACTACTCTCTATTGGCTATATGCCAATACTCTGTCTCTTCAGAGA 4209  
QY 1520 CTGACAGGACTCTGTATTTTACAGGATGGGGTCCCATTTATTTATTAACAAATTCACAT 1579  
DB 4210 CTGACAGGACTCTGTATTTTACAGGATGGGGTCCCATTTATTTATTTATTAACAAATTCACAT 4269  
QY 1580 ATACAAACACCCGCTCCCGTCCCGGAGTTTATTAACATAGCGTGGATCTCCAC 1639  
DB 4270 ATACAAACACCCGCTCCCGTCCCGGAGTTTATTAACATAGCGTGGATCTCCAC 4329  
QY 1640 GCGAATCTCGGGTACGTGTTCCGGACATGGGCTCTTCTCCGGTAGCGGAGCTTCCAC 1699  
DB 4330 GCGAATCTCGGGTACGTGTTCCGGACATGGGCTCTTCTCCGGTAGCGGAGCTTCCAC 4389  
QY 1700 ATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGTCGTCGCGAGCTCTTGTCTCT 1759  
DB 4390 ATCCGAGCCCTGGTCCCATGCTCCAGCGACTCATGTCGTCGCGAGCTCTTGTCTCT 4449  
QY 1760 AACAGTGGAGCCAGACTTAGGACAGACAAATGCCACACCACTGTCGCGACAA 1819  
DB 4450 AACAGTGGAGCCAGACTTAGGACAGACAAATGCCACACCACTGTCGCGACAA 4509  
QY 1820 GCGCGTGGCGGTAGGTATGTCTGAAATGAGCTCGGAGATTGGGCTCGCACCG-TGA 1878  
DB 4510 GCGCGTGGCGGTAGGTATGTCTGAAATGAGCTCGGAGATTGGGCTCGCACCGTGA 4569  
QY 1879 GCGAGATGAAGACTTAAGCAGCGCGCAGAAAGATGCGAGCGAGCTGAGTTGTGTATT 1938  
DB 4570 GCGAGATGAAGACTTAAGCAGCGCGCAGAAAGATGCGAGCGAGCTGAGTTGTGTATT 4629  
QY 1939 CTGATAGAGTCAAGGTAACTCCGTTGCGGCTGCTTAACGTTGAGGCGAGTGTAGT 1998  
DB 4630 CTGATAGAGTCAAGGTAACTCCGTTGCGGCTGCTTAACGTTGAGGCGAGTGTAGT 4689  
QY 1999 CTGAGCAGTACTCTGTGTCGCGCGCGCCACAGACATAATAGCTGACAGACTAACAG 2058  
DB 4590 CTGAGCAGTACTCTGTGTCGCGCGCGCCACAGACATAATAGCTGACAGACTAACAG 4749  
QY 2059 ACTGTTCTTTCCATGGGTCTTTTCTGCACTCACCGTCTTT 2099  
DB 4750 ACTGTTCTTTCCATGGGTCTTTTCTGCACTCACCGTCTTT 4790

## RESULT 15

US-09-886-942-18  
; Sequence 18, Application US/09886942  
; Patent No. US20020081708A1  
; GENERAL INFORMATION:  
; APPLICANT: FUNNEN, JUHA  
; WRIGHT, ANNE  
; SEMONOV, ANDREY  
; APPLICANT:  
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS  
; FILE REFERENCE: 02-031910US  
; CURRENT APPLICATION NUMBER: US/09/886,942  
; CURRENT FILING DATE: 2001-06-21  
; PRIOR FILING DATE: 2001-06-21  
; PRIOR FILING DATE: 2000-06-23  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 18  
; LENGTH: 1767  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

## ; OTHER INFORMATION: oligonucleotide

US-09-886-942-18

Query Match 78.1%; Score 1694.4; DB 9; Length 1767;  
Best Local Similarity 98.9%; Pred. No. 0;  
Matches 1746; Conservative 0; Mismatches 16; Indels 4; Gaps 4;

QY 335 ATATGAGGCTATATCGCGGATAGGCGGACATCAAGCTGGCAGCATGCGCAATGCGATCG 394  
DB 1 ATATGAGGCTATATCGCGGATATAGGCGGACATCAAGCTGGCAGCATGCGCAATGCGATCG 60  
QY 395 ATCTATACATTTGAATCAATATGCGCAATTAGCCATATTAGTCATTGGTTATATAGCATAA 454  
DB 61 ATCTATACATTTGAATCAATATGCGCAATTAGCCATATTAGTCATTGGTTATATAGCATAA 120  
QY 455 ATCAATATTTGGCTATTGGCCATTGCGATACGTTGTATCTATATCAATAATATGACATTTAT 514  
DB 121 ATCAATATTTGGCTATTGGCCATTGCGATACGTTGTATCTATATCAATAATATGACATTTAT 180  
QY 515 ATTGGCTCATGTCCTCAATATGACCGCCATGTTGACATTTGATGATTATGACTAGTTATTAATAG 574  
DB 181 ATTGGCTCATGTCCTCAATATGACCGCCATGTTGACATTTGATGATTATGACTAGTTATTAATAG 240  
QY 575 TAATCAATTAACGGGCTCAATTAGTTTCATAGCCCATATATGAGTTCCCGCTTACATAACTT 634  
DB 241 TAATCAATTAACGGGCTCAATTAGTTTCATAGCCCATATATGAGTTCCCGCTTACATAACTT 300  
QY 635 ACAGTAAATGGCGCGCTCG-TGACCGCCCAAGCGACCCCGCCCATTTGACGTCAATAATG 693  
DB 301 ACAGTAAATGGCGCTCGTGGCTGACCGCCCAAGCGACCCCGCCCATTTGACGTCAATAATG 360  
QY 694 ACATGTTTCCCATAGTAAGCCCAATAGGACATTTCCATTGACGTCAATGGTGGAGTAT 753  
DB 361 ACATGTTTCCCATAGTAAGCCCAATAGGACATTTCCATTGACGTCAATGGTGGAGTAT 420  
QY 754 TTACGGTAAATCGCCCACTGGCAGTACATCAAGTGTATCATATGCCAAGTCCCGGCCCTCC 813  
DB 421 TTACGGTAAATCGCCCACTGGCAGTACATCAAGTGTATCATATGCCAAGTCCCGGCCCTCC 479  
QY 814 TATTGAGCTCAATGACGGTAAATGGCGCGCTGGCATTTATGCCAGTACATGACCTTACG 873  
DB 480 TATTGAGCTCAATGACGGTAAATGGCGCGCTGGCATTTATGCCAGTACATGACCTTACG 539  
QY 874 GGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATTGGTATGCG 933  
DB 540 GGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATTGGTATGCG 599  
QY 934 GTTTTGGCAGTACACCAATGGCGGTGGATAGCGGTTTGAATCAGGGGATTTCCAAAGTCT 993  
DB 600 GTTTTGGCAGTACACCAATGGCGGTGGATAGCGGTTTGAATCAGGGGATTTCCAAAGTCT 659  
QY 994 CCACCCCATTTGACGTCAATGGGAGTTTGTGTTTGGCACCAAAATCAACGGGACTTTCCAAA 1053  
DB 660 CCACCCCATTTGACGTCAATGGGAGTTTGTGTTTGGCACCAAAATCAACGGGACTTTCCAAA 719  
QY 1054 ATGTGTAATAACCCCGCCCTGTTGACGAAATGGCGGTGAGCGTGTAGCGTGGAGGT 1113  
DB 720 ATGTGTAATAACCCCGCCCTGTTGACGAAATGGCGGTGAGCGTGTAGCGTGGAGGT 779  
QY 1114 CTATATAAGCAGAGCTGTTTGTGTAACCGTTCAGATCGCTGGAGAGCCATCCACGCTG 1173  
DB 780 CTATATAAGCAGAGCTGTTTGTGTAACCGTTCAGATCGCTGGAGAGCCATCCACGCTG 839  
QY 1174 TTTTGGACCTCCATAGAGACACCGGGACCGATCCAGCTCCCGCGCGCGGAACCGTGCAT 1233  
DB 840 TTTTGGACCTCCATAGAGACACCGGGACCGATCCAGCTCCATAGACCGGGAGCGTGCAT 899  
QY 1234 TGGAAACGCGGATTTCCCGTCCCAAGTGAAGTACCGCTTATAGACTCTATAGCA 1293  
DB 900 TGGAAACGCGGATTTCCCGTCCCAAGTGAAGTACCGCTTATAGACTCTATAGCA 959  
QY 1294 CACCCCTTTGGCTCTTATGATGCTATACCTGTTTGGCTTTGGGCTTATACACCCCGCG 1353



Db	960	CACCCCTTTGGCTCTTAATGCAATGCTATACGTGTTTTGGCTTGGGGCGCTATACACCCCGC	1019
Qy	1354	-TCCTTATGCTATAGGTGATGGTATAGCTTATAGCTATAGGTGTTGGGTATTATGACCAATTAT	1412
Db	1020	TTCCCTTATGCTATAGGTGATGGTATAGCTTATAGCTTATAGGTGTTGGGTATTATGACCAATTAT	1079
Qy	1413	TGACCACTCCCTTATTTGGTGACAGATCTTTCCATTACTTAATCCATTAACATGGCTCTTTGC	1472
Db	1080	TGACCACTCCCTTATTTGGTGACGATCTTTCCATTACTTAATCCATTAACATGGCTCTTTGC	1139
Qy	1473	CACAACATCTCTTATTTGGCTATATGCCAATPACTCTGTCCCTTACAGAGACTGCACACGACTC	1532
Db	1140	CACAACATCTCTTATTTGGCTATATGCCAATPACTCTGTCCCTTACAGAGACTGCACACGACTC	1199
Qy	1533	TGTATTTTTTACAGGATGGGTTCCCAATTATTTTACAAATTACATATACAAACACGCC	1592
Db	1200	TGTATTTTTTACAGGATGGGTTCCCAATTATTTTACAAATTACATATACAAACACGCC	1259
Qy	1593	GTCCCCCGTGCCTCCAGCTTTTATTAAACATAGGTTGGGATCTCCACGCGAATCTCGGGT	1652
Db	1260	GTCCCCAGTGCCTCCAGCTTTTATTAAACATAGGTTGGGATCTCCACGCGAATCTCGGGT	1319
Qy	1653	ACGTGTTTCCGACATGGGCTCTTCTCCGGTAGCGGGCGAGCTTCCACATCCGAGCCCTGG	1712
Db	1320	ACGTGTTTCCGACATGGGCTCTTCTCCGGTAGCGGGCGAGCTTCCACATCCGAGCCCTGG	1379
Qy	1713	TCCCATGCCTCCAGCGGCTCATGTCGCTCGGCAGCTCTTGTGCTCTTAAACAGTGGAGGCC	1772
Db	1380	TCCCATGCCTCCAGCGGCTCATGTCGCTCGGCAGCTCTTGTGCTCTTAAACAGTGGAGGCC	1439
Qy	1773	AGACTTAGGCACAGCACAATGCCCCACACACACAGTGTGCGGCACACAGGCCGTGGCGGTA	1832
Db	1440	AGACTTAGGCACAGCACAATGCCCCACACACACAGTGTGCGGCACACAGGCCGTGGCGGTA	1499
Qy	1833	GGGTATGTGTCGAAATGAGCTCGAGATTTGGGCTCGCACCG-TGACGCAGATGGAAGA	1891
Db	1500	GGGTATGTGTCGAAATGAGCTCGAGATTTGGGCTCGCACCG-TGACGCAGATGGAAGA	1559
Qy	1892	CTTAAGGCAGCGCAGAGAAGATGCAAGGCAGCTGAGTTGTTGATTCTGATAAGAGTCA	1951
Db	1560	CTTAAGGCAGCGCAGAGAAGATGCAAGGCAGCTGAGTTGTTGATTCTGATAAGAGTCA	1619
Qy	1952	GAGGTAACTCCCGTTGGGTCGCTGTTAAACGTTGAGGGCAGTGPAGTCTCAGCAGTACTC	2011
Db	1620	GAGGTAACTCCCGTTGGGTCGCTGTTAAACGTTGAGGGCAGTGPAGTCTCAGCAGTACTC	1679
Qy	2012	GTTGTCGCGCGCGGCCACACAGACATAATAGCTTGACAGACTAAACAGACTGTTCTCTTTCC	2071
Db	1680	GTTGTCGCGCGCGGCCACACAGACATAATAGCTTGACAGACTAAACAGACTGTTCTCTTTCC	1739
Qy	2072	ATGGGTCCTTTTCTGCAGTCAACCGTCCTT	2099
Db	1740	ATGGGTCCTTTTCTGCAGTCAACCGTCCTT	1767

Search completed: December 20, 2004, 14:18:54  
Job time : 1163.7 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 20, 2004, 13:34:51 ; Search time 13.906 Seconds  
(without alignments)  
7411.504 Million cell updates/sec

Title: US-09-977-066A-3

Perfect score: 145

Sequence: 1 gtaagaccgcctatagact.....ttgcagtcaccgcgtgcgac 145

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 35539441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:\*

- 1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq:\*
- 2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq:\*
- 3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq:\*
- 4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq:\*
- 5: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq:\*
- 6: /cgn2\_6/ptodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	79.6	54.9	4276	4	US-09-721-480-1
2	79.6	54.9	4328	3	US-09-132-808-1
3	79.6	54.9	4328	3	US-08-910-647-2
4	79.6	54.9	4328	4	US-09-620-925-2
5	79.6	54.9	4328	4	US-09-620-260-1
6	79.6	54.9	4328	4	US-09-620-259-1
7	79.6	54.9	4818	3	US-08-910-647-4
8	79.6	54.9	4818	4	US-09-620-925-4
9	79.6	54.9	4915	4	US-09-173-053-7
10	79.6	54.9	4928	1	US-08-345-913-1
11	79.6	54.9	4928	3	US-08-818-562-1
12	79.6	54.9	4928	3	US-09-628-445-1
13	79.6	54.9	5107	3	US-08-910-647-3
14	79.6	54.9	5107	4	US-09-620-925-3
15	79.6	54.9	5108	4	US-09-628-730-51
16	79.6	54.9	5108	4	US-09-628-730-52
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18	79.6	54.9	5185	4	US-09-721-480-2
19	79.6	54.9	5185	4	US-09-628-730-47
20	79.6	54.9	5188	4	US-09-628-730-59
21	79.6	54.9	5215	4	US-09-173-053-8
22	79.6	54.9	5254	4	US-09-628-730-60
23	79.6	54.9	5459	4	US-09-721-480-4
24	79.6	54.9	5676	2	US-08-663-998-3
25	79.6	54.9	5682	2	US-08-663-998-4
26	79.6	54.9	5882	4	US-09-721-480-6
27	79.6	54.9	5899	4	US-09-173-053-2

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Sequence 170, App  
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Sequence 156, App

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29 79.6 54.9 5952 2 US-08-663-998-2  
30 79.6 54.9 7015 4 US-09-770-315-1  
31 79.6 54.9 9600 3 US-08-910-647-1  
32 79.6 54.9 9600 4 US-09-620-925-1  
33 76.4 52.7 2057 1 US-08-450-945-57  
34 76.4 52.7 2057 3 US-08-976-161-57  
35 76.4 52.7 3125 2 US-08-037-816A-13  
36 76.4 52.7 3125 2 US-08-530-146-13  
37 76.4 52.7 7731 4 US-09-301-593-29  
38 76.4 52.7 7731 4 US-09-301-593-42  
39 76.4 52.7 8068 4 US-09-301-593-27  
40 76.4 52.7 8068 4 US-09-301-593-35  
41 76.4 52.7 13254 1 US-08-276-852-156  
42 76.4 52.7 13254 1 US-08-276-852-170  
43 76.4 52.7 13254 1 US-08-899-575-156  
44 76.4 52.7 13254 1 US-08-899-575-170  
45 76.4 52.7 13254 1 US-08-899-575-156

#### ALIGNMENTS

##### RESULT 1

US-09-721-480-1

; Sequence 1, Application US/09721480

; Patent No. 6740323

; GENERAL INFORMATION:

; APPLICANT: Selby, Mark

; APPLICANT: Glazer, Edward

; APPLICANT: Houghton, Michael

; TITLE OF INVENTION: HBV/HCV VIRUS-LIKE PARTICLE

; FILE REFERENCE: PP01635.002

; CURRENT APPLICATION NUMBER: US/09/721.480

; CURRENT FILING DATE: 2000-11-22

; NUMBER OF SEQ ID NOS: 7

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1

; LENGTH: 4276

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: plasmid pCMVII

US-09-721-480-1

Query Match 54.9%; Score 79.6; DB 4; Length 4276;

Best Local Similarity 90.4%; Pred. No. 1.2e-16;

Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGCTCGCGGCGGCACGACATATCGCTGACACTGACACTGCTTCCTT 111

Db 1884 CTCGTTGCTCGCGGCGGCACGACATATAGCTGACAGACTAACAGACTGCTTCCTT 1943

Qy 112 TCCGTTTTTTTTTTTTCAGTCACCGTCGTCGAC 145

Db 1944 TCCATGGGCTTTTCTGTCAGTCACCGTCGTCGAC 1977

##### RESULT 2

US-09-132-808-1

; Sequence 1, Application US/09132808

; Patent No. 6197332

; GENERAL INFORMATION:

; APPLICANT: Ronald Zuckermann et al.

; TITLE OF INVENTION: Lipid-Conjugated Polyamide Compounds and Related

; TITLE OF INVENTION: Compositions and Methods Thereof

; NUMBER OF SEQUENCES: 1

; CORRESPONDENCE ADDRESS:

; ADDRESS: Chiron Corporation

; STREET: 4560 Horton Street

; CITY: Emeryville

; STATE: California

; COUNTRY: U.S.A.

```
;
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/132,808
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1387.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4328 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-09-132-808-1

Query Match 54.9%; Score 79.6; DB 3; Length 4328;
Best Local Similarity 90.4%; Pred. No. 1.2e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGCTGCGCGCGCCACACAGACATAATCGCTGACACACTGACAGACTGTTCTTT 111
Db 1555 CTCGTTGCTGCGCGCGCCACACAGACATAATAGCTGACAGACTGTTCTTT 1614

Qy 112 TCCTTTTCTTTTTCAGTCACCGTCGTCGAC 145
Db 1615 TCCATGGGTCCTTTCTGCAGTCACCGTCGTCGAC 1648

RESULT 3
US-09-910-647-2
; Sequence 2, Application US/08910647
; Patent No. 6251433
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; POLYNUCLEOTIDE DELIVERY
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/132,808
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4328 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-09-132-808-1

Query Match 54.9%; Score 79.6; DB 3; Length 4328;
Best Local Similarity 90.4%; Pred. No. 1.2e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGCTGCGCGCGCCACACAGACATAATCGCTGACACACTGACAGACTGTTCTTT 111
Db 1555 CTCGTTGCTGCGCGCGCCACACAGACATAATAGCTGACAGACTGTTCTTT 1614

Qy 112 TCCTTTTCTTTTTCAGTCACCGTCGTCGAC 145
Db 1615 TCCATGGGTCCTTTCTGCAGTCACCGTCGTCGAC 1648

RESULT 3
US-08-910-647-2
; Sequence 2, Application US/08910647
; Patent No. 6251433
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; POLYNUCLEOTIDE DELIVERY
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/910,647
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4328 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-910-647-2
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;
; LENGTH: 4328 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-910-647-2

Query Match 54.9%; Score 79.6; DB 3; Length 4328;
Best Local Similarity 90.4%; Pred. No. 1.2e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGCTGCGCGCGCCACACAGACATAATCGCTGACACACTGACAGACTGTTCTTT 111
Db 1555 CTCGTTGCTGCGCGCGCCACACAGACATAATAGCTGACAGACTGTTCTTT 1614

Qy 112 TCCTTTTCTTTTTCAGTCACCGTCGTCGAC 145
Db 1615 TCCATGGGTCCTTTCTGCAGTCACCGTCGTCGAC 1648

RESULT 4
US-09-620-925-2
; Sequence 2, Application US/09620925
; Patent No. 6468986
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; POLYNUCLEOTIDE DELIVERY
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/620,925
; FILING DATE: 21-Jul-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/910,647
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4328 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
; US-09-620-925-2

Query Match 54.9%; Score 79.6; DB 4; Length 4328;
Best Local Similarity 90.4%; Pred. No. 1.2e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGCTGCGCGCGCCACACAGACATAATCGCTGACACACTGACAGACTGTTCTTT 111
Db 1555 CTCGTTGCTGCGCGCGCCACACAGACATAATAGCTGACAGACTGTTCTTT 1614
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STATE: California  
COUNTRY: U.S.A.  
ZIP: 94608-2916  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/620,259  
FILING DATE: 03-Oct-2001  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Fujita, Sharon M.  
REGISTRATION NUMBER: 38,459  
REFERENCE/DOCKET NUMBER: 1387.002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 923-2706  
TELEFAX: (510) 655-3542  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4328 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-09-620-259-1

Query Match 54.9%; Score 79.6; DB 4; Length 4328;  
Best Local Similarity 90.4%; Pred. No. 1.2e-16;  
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 52 CTCGTGTGTCGGCGCGCCACACAGACATATCGCTGACACACATGACAGACTGTTCCCTT 111  
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QY 112 TCCTTTTTTTTTTTTTTTCGAGTCACCGTCGTCGAC 145  
Db 1615 TCCATGGGTCTTTTCTGCGAGTCACCGTCGTCGAC 1648

RESULT 7  
US-08-910-647-4  
Sequence 4, Application US/08910647  
Patent No. 6251433  
GENERAL INFORMATION:  
APPLICANT: Zuckermann et al.  
TITLE OF INVENTION: Compositions and Methods for  
TITLE OF INVENTION: Polynucleotide Delivery  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Chiron Corporation  
STREET: 4560 Horton Street  
CITY: Emeryville  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 94608-2916  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/910,647  
FILING DATE:  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Fujita, Sharon M.  
REGISTRATION NUMBER: 38,459  
REFERENCE/DOCKET NUMBER: 1218.002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 923-2706

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; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4818 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-910-647-4

Query Match          54.9%; Score 79.6; DB 3; Length 4818;
Best Local Similarity 90.4%; Pred. No. 1.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 52 CTCGTTGCTGCGCGCGCCACACAGACATAATCGCTGACACACTGACAGACTGTTCTT 111
DB 1558 CTCGTTGCTGCGCGCGCCACACAGACATAATAGCTGACAGACTGTTCTT 1617

QY 112 TCCTTTTTTTTTTTTGCAGTCACCGTCGTCGAC 145
DB 1618 TCCATGGGTCTTTCTGCACTCACCGTCGTCGAC 1651

RESULT 8
US-09-620-925-4
; Sequence 4, Application US/09620925
; Patent No. 6468986
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; Polynucleotide Delivery
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/620,925
; FILING DATE: 21-Jul-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/910,647
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4818 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-620-925-4

Query Match          54.9%; Score 79.6; DB 4; Length 4818;
Best Local Similarity 90.4%; Pred. No. 1.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 52 CTCGTTGCTGCGCGCGCCACACAGACATAATCGCTGACACACTGTTCTT 111
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DB 1558 CTCGTTGCTGCGCGCGCCACACAGACATAATAGCTGACAGACTGTTCTT 1617
QY 112 TCCTTTTTTTTTTTTGCAGTCACCGTCGTCGAC 145
DB 1618 TCCATGGGTCTTTCTGCACTCACCGTCGTCGAC 1651

RESULT 9
US-09-173-053-7
; Sequence 7, Application US/09173053
; Patent No. 6451769
; GENERAL INFORMATION:
; APPLICANT: HUEBNER, Robert C.
; APPLICANT: NORMAN, Jon A.
; APPLICANT: LIANG, Xiaowu
; APPLICANT: CARNER, Kristin R.
; APPLICANT: BARBOUR, Alan G.
; APPLICANT: LUKE, Catherine J.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ADMINISTERING BORRELIA DNA
; FILE REFERENCE: 454312-2440.1
; CURRENT APPLICATION NUMBER: US/09/173,053
; CURRENT FILING DATE: 1998-10-15
; PRIOR APPLICATION NUMBER: 08/663,998
; PRIOR FILING DATE: 1996-06-14
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 4915
; TYPE: DNA
; ORGANISM: Borrelia burgdorferi
US-09-173-053-7

Query Match          54.9%; Score 79.6; DB 4; Length 4915;
Best Local Similarity 90.4%; Pred. No. 1.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

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DB 1786 CTCGTTGCTGCGCGCGCCACACAGACATAATAGCTGACAGACTGTTCTT 1845

QY 112 TCCTTTTTTTTTTTTGCAGTCACCGTCGTCGAC 145
DB 1846 TCCATGGGTCTTTCTGCACTCACCGTCGTCGAC 1879

RESULT 10
US-08-345-913-1
; Sequence 1, Application US/08345913
; Patent No. 5641665
; GENERAL INFORMATION:
; APPLICANT: Hobart, Peter
; APPLICANT: Parker, Suzanne
; APPLICANT: Margalith, Michal
; APPLICANT: Khatibi, Shirin
; TITLE OF INVENTION: PLASMIDS SUITABLE FOR IL-2 EXPRESSION
; NUMBER OF SEQUENCES: 1
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe, Martens, Olson and Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: CA
; COUNTRY: USA
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/345,913
; FILING DATE:
; CLASSIFICATION: 435
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: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Ways Vensko, Nancy
: REGISTRATION NUMBER: 36,298
: REFERENCE/DOCKET NUMBER: VICAL.043A
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 619-235-8550
: TELEFAX: 619-235-0176
: TELEX:
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 4928 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: HYPOTHETICAL: NO
: ANTI-SENSE: NO
: FRAGMENT TYPE:
: ORIGINAL SOURCE:
: FEATURE:
: NAME/KEY: Coding Sequence
: LOCATION: 1689...2159
: OTHER INFORMATION:
: US-08-345-913-1
:
: Query Match 54.9%; Score 79.6; DB 1; Length 4928;
: Best Local Similarity 90.4%; Pred. No. 1.3e-16;
: Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
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: QY 112 TCCCTTTTTTTTTTTTTCAGTCACCGTCGTCGAC 145
: DB 1600 TCCATGGGTCTTTTCTGCAGTCACCGTCGTCGAC 1633
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: RESULT 11
: US-08-818-562-1
: Sequence 1, Application US/08818562
: Patent No. 6147055
: GENERAL INFORMATION:
: APPLICANT: Hobart, Peter M.
: APPLICANT: Margalith, Michal
: APPLICANT: Parker, Suezanne E.
: APPLICANT: Khatibi, Shirin
: TITLE OF INVENTION: plasmids Suitable for IL-2 Expression
: FILE REFERENCE: 1530.0080001
: CURRENT APPLICATION NUMBER: US/08/818,562
: CURRENT FILING DATE: 1997-03-14
: EARLIER APPLICATION NUMBER: US 08/345,913
: EARLIER FILING DATE: 1994-11-28
: NUMBER OF SEQ ID NOS: 3
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 1
: LENGTH: 4928
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1689)..(2159)
: US-08-818-562-1
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: Best Local Similarity 90.4%; Pred. No. 1.3e-16;
: Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
:
: QY 52 CTCGTTGCTGCGCGCGCCAGACACATAATCGTGCACACACTGACAGACTGTTCTT 111

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;
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5107 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-910-647-3

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Best Local Similarity 90.4%; Pred. No. 1.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

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Qy 112 TCCTTTTTTTTTTTTTTGCAGTCACCGTCGTCGAC 145
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RESULT 15
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; Sequence 51, Application US/09628730
; Patent No. 6759393
; GENERAL INFORMATION:
; APPLICANT: Morsey, Mohamad
; TITLE OF INVENTION: GROWTH HORMONE AND GROWTH HORMONE RELEASING HORMONE
; TITLE OF INVENTION: COMPOSITIONS
; FILE REFERENCE: PC10525B
; CURRENT APPLICATION NUMBER: US/09/628,730
; CURRENT FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 51
; LENGTH: 5108
; TYPE: DNA
; ORGANISM: Artificial Sequence
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; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: pGHRH1-29WTCMV construct
; US-09-628-730-51

Query Match 54.9%; Score 79.6; DB 4; Length 5108;
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Db 4827 TCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 4860

Search completed: December 20, 2004, 13:50:35
Job time : 13.906 secs

;
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5107 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-09-620-925-3

Query Match 54.9%; Score 79.6; DB 3; Length 5107;
Best Local Similarity 90.4%; Pred. No. 1.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

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RESULT 14
US-09-620-925-3
; Sequence 3, Application US/09620925
; Patent No. 6468986
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; POLYNUCLEOTIDE DELIVERY
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESS: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/620,925
; FILING DATE: 21-Jul-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/910,647
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5107 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
; US-09-620-925-3
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OM nucleic - nucleic search, using sw model

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Perfect score: 145

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Total number of hits satisfying chosen parameters: 8186004

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

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- 20: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*
- 21: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	79.6	54.9	4328	15	US-10-278-751-2 Sequence 2, Appli
3	79.6	54.9	4328	16	US-10-445-642-1 Sequence 1, Appli
4	79.6	54.9	4818	15	US-10-278-751-4 Sequence 4, Appli
5	79.6	54.9	4928	15	US-10-127-683-1 Sequence 1, Appli
6	79.6	54.9	5107	15	US-10-278-751-3 Sequence 3, Appli
7	79.6	54.9	5108	17	US-10-796-486-51 Sequence 51, Appl
8	79.6	54.9	5108	17	US-10-796-486-52 Sequence 52, Appl
9	79.6	54.9	5111	17	US-10-796-486-55 Sequence 55, Appl
10	79.6	54.9	5185	17	US-10-796-486-47 Sequence 47, Appl
11	79.6	54.9	5188	17	US-10-796-486-59 Sequence 59, Appl
12	79.6	54.9	5254	17	US-10-796-486-60 Sequence 60, Appl

13	79.6	54.9	5549	16	US-10-359-120-80 Sequence 80, Appl
14	79.6	54.9	5549	16	US-10-359-120-81 Sequence 81, Appl
15	79.6	54.9	5549	16	US-10-359-120-82 Sequence 82, Appl
16	79.6	54.9	5549	16	US-10-359-120-83 Sequence 83, Appl
17	79.6	54.9	5610	13	US-10-090-983-2 Sequence 2, Appli
18	79.6	54.9	5742	17	US-10-688-299-47 Sequence 47, Appl
19	79.6	54.9	5974	13	US-10-090-983-8 Sequence 8, Appli
20	79.6	54.9	6438	16	US-10-359-120-157 Sequence 157, App
21	79.6	54.9	6460	16	US-10-359-120-34 Sequence 34, Appl
22	79.6	54.9	6466	16	US-10-359-120-130 Sequence 130, App
23	79.6	54.9	6473	16	US-10-359-120-100 Sequence 100, App
24	79.6	54.9	6486	16	US-10-359-120-158 Sequence 158, App
25	79.6	54.9	6505	16	US-10-359-120-15 Sequence 15, Appl
26	79.6	54.9	6505	16	US-10-359-120-16 Sequence 16, Appl
27	79.6	54.9	6505	16	US-10-359-120-129 Sequence 129, App
28	79.6	54.9	6514	13	US-10-090-983-1 Sequence 1, Appli
29	79.6	54.9	6526	16	US-10-359-120-137 Sequence 137, App
30	79.6	54.9	6532	16	US-10-359-120-69 Sequence 69, Appl
31	79.6	54.9	6536	16	US-10-359-120-107 Sequence 107, Appl
32	79.6	54.9	6538	16	US-10-359-120-30 Sequence 30, Appl
33	79.6	54.9	6538	16	US-10-359-120-33 Sequence 33, Appl
34	79.6	54.9	6538	16	US-10-359-120-145 Sequence 145, App
35	79.6	54.9	6541	16	US-10-359-120-31 Sequence 31, Appl
36	79.6	54.9	6542	16	US-10-359-120-99 Sequence 99, Appl
37	79.6	54.9	6545	16	US-10-359-120-115 Sequence 115, App
38	79.6	54.9	6547	16	US-10-359-120-131 Sequence 131, App
39	79.6	54.9	6547	16	US-10-359-120-155 Sequence 155, App
40	79.6	54.9	6554	16	US-10-359-120-101 Sequence 101, App
41	79.6	54.9	6565	16	US-10-359-120-136 Sequence 136, App
42	79.6	54.9	6577	16	US-10-359-120-32 Sequence 32, Appl
43	79.6	54.9	6577	16	US-10-359-120-50 Sequence 50, Appl
44	79.6	54.9	6577	16	US-10-359-120-51 Sequence 51, Appl
45	79.6	54.9	6577	16	US-10-359-120-144 Sequence 144, App

ALIGNMENTS

RESULT 1  
US-10-387-252-3  
; Sequence 3, Application US/10387252  
; Publication No. US20040047847A1  
; GENERAL INFORMATION:  
; APPLICANT: He, Yukai  
; APPLICANT: Grandis, Jennifer Rubin  
; APPLICANT: Huang, Leaf  
; TITLE OF INVENTION: Inhibition of Human Squamous Cell Carcinoma Growth In Vivo by Epidermal Growth Factor Receptor Antisense RNA  
; TITLE OF INVENTION: Vivo by Epidermal Growth Factor Receptor Antisense RNA  
; TITLE OF INVENTION: Transcribed From a Pol III Promoter  
; FILE REFERENCE: HeGrandisHuang  
; CURRENT APPLICATION NUMBER: US/10/387,252  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: US/09/595,863B  
; PRIOR FILING DATE: 2000-06-16  
; PRIOR APPLICATION NUMBER: 60/140,136  
; PRIOR FILING DATE: 1999-06-18  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: Microsoft Word 97 SR-2  
; SEQ ID NO 3  
; LENGTH: 3982  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Plasmid pNGVL1  
US-10-387-252-3

Query Match	54.9%	Score	79.6;	DB	16;	Length	3982;
Best Local Similarity	90.4%	Pred. No.	4.8e-16;				
Matches	85;	Conservative	0;	Mismatches	9;	Indels	0;
Gaps	0;						
QY	52	CTCGTGTCTCCGCGCGCCACACAGACATAATCGCTGACACTGACACTGACACTGTTCTT	111				
DB	987	CTCGTGTCTCCGCGCGCCACACAGACATAATAGCTGACACTGACACTGTTCTT	1046				





```
;
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4818 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-278-751-4

Query Match          54.9%; Score 79.6; DB 15; Length 4818;
Best Local Similarity 90.4%; Pred. No. 5.1e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGTCGCGCGCGCCACGACATATCGCTGACACTGACAGACTGTTCTT 111
Db 1558 CTCGTTGTCGCGCGCGCCACGACATATAGCTGACAGACTTAACAGACTGTTCTT 1617

Qy 112 TCCGTTTTTTTTTTTTTTCAGTCACCGTCGTCGAC 145
Db 1618 TCCATGGGTCCTTTCTGTCAGTCACCGTCGTCGAC 1651

RESULT 5
US-10-127-683-1
; Sequence 1, Application US/10127683
; Publication No. US20030203863A1
; GENERAL INFORMATION:
; APPLICANT: Hobart, Peter M.
; APPLICANT: Margalith, Michal
; APPLICANT: Parker, Suzanne E.
; APPLICANT: Khatibi, Shirin
; TITLE OF INVENTION: Plasmids Suitable for IL-2 Expression
; FILE REFERENCE: 1530.008003
; CURRENT APPLICATION NUMBER: US/10/127,683
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 09/628,445
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: US 08/818,562
; PRIOR FILING DATE: 1997-03-14
; PRIOR APPLICATION NUMBER: US 08/345,913
; PRIOR FILING DATE: 1994-11-28
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 4928
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1689)..(2159)
US-10-127-683-1

Query Match          54.9%; Score 79.6; DB 15; Length 4928;
Best Local Similarity 90.4%; Pred. No. 5.1e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGTCGCGCGCGCCACGACATATCGCTGACACTGACAGACTGTTCTT 111
Db 1540 CTCGTTGTCGCGCGCGCCACGACATATAGCTGACAGACTTAACAGACTGTTCTT 1599

Qy 112 TCCGTTTTTTTTTTTTTTCAGTCACCGTCGTCGAC 145
Db 1600 TCCATGGGTCCTTTCTGTCAGTCACCGTCGTCGAC 1633

RESULT 6
US-10-278-751-3
; Sequence 3, Application US/10278751
; Publication No. US20030185890A1
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for Delivery
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/278,751
; FILING DATE: 22-Jan-2003
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5107 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-10-278-751-3

Query Match          54.9%; Score 79.6; DB 15; Length 5107;
Best Local Similarity 90.4%; Pred. No. 5.1e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGTCGCGCGCGCCACGACATATCGCTGACACTGACAGACTGTTCTT 111
Db 1558 CTCGTTGTCGCGCGCGCCACGACATATAGCTGACAGACTTAACAGACTGTTCTT 1617

Qy 112 TCCGTTTTTTTTTTTTTTCAGTCACCGTCGTCGAC 145
Db 1618 TCCATGGGTCCTTTCTGTCAGTCACCGTCGTCGAC 1651

RESULT 7
US-10-796-486-51
; Sequence 51, Application US/10796486
; Publication No. US20040171574A1
; GENERAL INFORMATION:
; APPLICANT: Morsey, Mohamad
; TITLE OF INVENTION: GROWTH HORMONE AND GROWTH HORMONE RELEASING HORMONE
; FILE REFERENCE: PC10525B
; CURRENT APPLICATION NUMBER: US/10/796,486
; CURRENT FILING DATE: 2004-03-08
; PRIOR APPLICATION NUMBER: US/09/628,730
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 51
; LENGTH: 5108
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: pGHRH1-29WTCMV construct
US-10-796-486-51
```

Polynucleotide

Query Match 54.9%; Score 79.6; DB 17; Length 5108;  
Best Local Similarity 90.4%; Pred. No. 5.1e-16;  
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;  
Qy 52 CTCGTTGCTGCGCGCGCCACAGACATAATCGCTGACACTGACAGACTGTTCTTT 111  
Db 4767 CTCGTTGCTGCGCGCGCCACAGACATAATAGCTGACAGACTAACAGACTGTTCTTT 4826  
Qy 112 TCCTTTTTTTTTTTTTCAGTCACCGTCGTCGAC 145  
Db 4827 TCCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 4860

RESULT 8  
US-10-796-486-52  
; Sequence 52, Application US/10796486  
; Publication No. US20040171574A1  
; GENERAL INFORMATION:  
; APPLICANT: Morsey, Mohamad  
; TITLE OF INVENTION: GROWTH HORMONE AND GROWTH HORMONE RELEASING HORMONE  
; FILE REFERENCE: PC10525B  
; CURRENT APPLICATION NUMBER: US/10/796,486  
; PRIOR FILING DATE: 2004-03-08  
; PRIOR APPLICATION NUMBER: US/09/628,730  
; PRIOR FILING DATE: 2000-07-28  
; NUMBER OF SEQ ID NOS: 67  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 52  
; LENGTH: 5108  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:  
; OTHER INFORMATION: pGHRH1-29WTICMV construct  
US-10-796-486-52

Query Match 54.9%; Score 79.6; DB 17; Length 5108;  
Best Local Similarity 90.4%; Pred. No. 5.1e-16;  
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;  
Qy 52 CTCGTTGCTGCGCGCGCCACAGACATAATCGCTGACACTGACAGACTGTTCTTT 111  
Db 4767 CTCGTTGCTGCGCGCGCCACAGACATAATAGCTGACAGACTAACAGACTGTTCTTT 4826  
Qy 112 TCCTTTTTTTTTTTTTCAGTCACCGTCGTCGAC 145  
Db 4827 TCCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 4860

RESULT 9  
US-10-796-486-55  
; Sequence 55, Application US/10796486  
; Publication No. US20040171574A1  
; GENERAL INFORMATION:  
; APPLICANT: Morsey, Mohamad  
; TITLE OF INVENTION: GROWTH HORMONE AND GROWTH HORMONE RELEASING HORMONE  
; FILE REFERENCE: PC10525B  
; CURRENT APPLICATION NUMBER: US/10/796,486  
; PRIOR FILING DATE: 2004-03-08  
; PRIOR APPLICATION NUMBER: US/09/628,730  
; PRIOR FILING DATE: 2000-07-28  
; NUMBER OF SEQ ID NOS: 67  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 55  
; LENGTH: 5111  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:  
; OTHER INFORMATION: pGHRH1-29Yalal522CMV construct

US-10-796-486-55

Query Match 54.9%; Score 79.6; DB 17; Length 5111;  
Best Local Similarity 90.4%; Pred. No. 5.1e-16;  
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;  
Qy 52 CTCGTTGCTGCGCGCGCCACAGACATAATCGCTGACACTGACAGACTGTTCTTT 111  
Db 4767 CTCGTTGCTGCGCGCGCCACAGACATAATAGCTGACAGACTAACAGACTGTTCTTT 4826  
Qy 112 TCCTTTTTTTTTTTTTCAGTCACCGTCGTCGAC 145  
Db 4827 TCCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 4860

RESULT 10  
US-10-796-486-47  
; Sequence 47, Application US/10796486  
; Publication No. US20040171574A1  
; GENERAL INFORMATION:  
; APPLICANT: Morsey, Mohamad  
; TITLE OF INVENTION: GROWTH HORMONE AND GROWTH HORMONE RELEASING HORMONE  
; FILE REFERENCE: PC10525B  
; CURRENT APPLICATION NUMBER: US/10/796,486  
; PRIOR FILING DATE: 2004-03-08  
; PRIOR APPLICATION NUMBER: US/09/628,730  
; PRIOR FILING DATE: 2000-07-28  
; NUMBER OF SEQ ID NOS: 67  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 47  
; LENGTH: 5185  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: pGHRH-4  
; OTHER INFORMATION: construct  
US-10-796-486-47

Query Match 54.9%; Score 79.6; DB 17; Length 5185;  
Best Local Similarity 90.4%; Pred. No. 5.2e-16;  
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;  
Qy 52 CTCGTTGCTGCGCGCGCCACAGACATAATCGCTGACACTGACAGACTGTTCTTT 111  
Db 4767 CTCGTTGCTGCGCGCGCCACAGACATAATAGCTGACAGACTAACAGACTGTTCTTT 4826  
Qy 112 TCCTTTTTTTTTTTTTCAGTCACCGTCGTCGAC 145  
Db 4827 TCCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 4860

RESULT 11  
US-10-796-486-59  
; Sequence 59, Application US/10796486  
; Publication No. US20040171574A1  
; GENERAL INFORMATION:  
; APPLICANT: Morsey, Mohamad  
; TITLE OF INVENTION: GROWTH HORMONE AND GROWTH HORMONE RELEASING HORMONE  
; FILE REFERENCE: PC10525B  
; CURRENT APPLICATION NUMBER: US/10/796,486  
; PRIOR FILING DATE: 2004-03-08  
; PRIOR APPLICATION NUMBER: US/09/628,730  
; PRIOR FILING DATE: 2000-07-28  
; NUMBER OF SEQ ID NOS: 67  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 59  
; LENGTH: 5188  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:

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; OTHER INFORMATION: pGHRH1-44YTCMV construct
US-10-796-486-59

Query Match      54.9%; Score 79.6; DB 17; Length 5188;
Best Local Similarity 90.4%; Pred. No. 5.2e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGCTGCGCGCGCCGACACACATAATCGCTGACACACTGACAGACTGTTCCCTT 111
Db 4767 CTCGTTGCTGCGCGCGCCGACACACATAATAGCTGACAGACTAACAGACTGTTCCCTT 4826

Qy 112 TCCTTTTTTTTTTTTTTGCAGTCACCGTCGTCGAC 145
Db 4827 TCCATGGGTCTTTTCTGCAGTCACCGTCGTCGAC 4860

RESULT 12
US-10-796-486-60
; Sequence 60, Application US/10796486
; Publication No. US20040171574A1
; GENERAL INFORMATION:
; APPLICANT: Morsey, Mohamad
; TITLE OF INVENTION: GROWTH HORMONE AND GROWTH HORMONE RELEASING HORMONE
; FILE REFERENCE: PC10525B
; CURRENT APPLICATION NUMBER: US/10/796,486
; CURRENT FILING DATE: 2004-03-08
; PRIOR APPLICATION NUMBER: US/09/628,730
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 60
; LENGTH: 5254
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: pGHRH1-44WGHpep construct
US-10-796-486-60

Query Match      54.9%; Score 79.6; DB 17; Length 5254;
Best Local Similarity 90.4%; Pred. No. 5.2e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGCTGCGCGCGCCGACACACATAATCGCTGACACACTGACAGACTGTTCCCTT 111
Db 4767 CTCGTTGCTGCGCGCGCCGACACACATAATAGCTGACAGACTAACAGACTGTTCCCTT 4826

Qy 112 TCCTTTTTTTTTTTTTTGCAGTCACCGTCGTCGAC 145
Db 4827 TCCATGGGTCTTTTCTGCAGTCACCGTCGTCGAC 4860

RESULT 13
US-10-359-120-80
; Sequence 80, Application US/10359120
; Publication No. US20040033487A1
; GENERAL INFORMATION:
; APPLICANT: NABLE, Gary J.
; APPLICANT: CHAKRABARTI, Bimal K.
; APPLICANT: HUANG, Yue
; TITLE OF INVENTION: MODIFICATIONS OF HIV Env, Gag, AND Pol
; FILE REFERENCE: NIH206.001C1
; CURRENT APPLICATION NUMBER: US/10/359,120
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: US 60/279,257
; PRIOR FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: PCT/US01/25721
; PRIOR FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: US 60/279,257
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 60/252,115
; PRIOR FILING DATE: 2000-11-14
; PRIOR APPLICATION NUMBER: US 60/225,097
; PRIOR FILING DATE: 2000-08-14
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81
; LENGTH: 5549
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: plasmid pVR1012x/s containing HIV genes
US-10-359-120-81

Query Match      54.9%; Score 79.6; DB 16; Length 5549;
Best Local Similarity 90.4%; Pred. No. 5.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGCTGCGCGCGCCGACACACATAATCGCTGACACACTGACAGACTGTTCCCTT 111
Db 1786 CTCGTTGCTGCGCGCGCCGACACACATAATAGCTGACAGACTAACAGACTGTTCCCTT 1845

Qy 112 TCCTTTTTTTTTTTTTTGCAGTCACCGTCGTCGAC 145
Db 1846 TCCATGGGTCTTTTCTGCAGTCACCGTCGTCGAC 1879

RESULT 14
US-10-359-120-81
; Sequence 81, Application US/10359120
; Publication No. US20040033487A1
; GENERAL INFORMATION:
; APPLICANT: NABLE, Gary J.
; APPLICANT: CHAKRABARTI, Bimal K.
; APPLICANT: HUANG, Yue
; TITLE OF INVENTION: MODIFICATIONS OF HIV Env, Gag, AND Pol
; FILE REFERENCE: NIH206.001C1
; CURRENT APPLICATION NUMBER: US/10/359,120
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: PCT/US01/25721
; PRIOR FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: US 60/279,257
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 60/252,115
; PRIOR FILING DATE: 2000-11-14
; PRIOR APPLICATION NUMBER: US 60/225,097
; PRIOR FILING DATE: 2000-08-14
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81
; LENGTH: 5549
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: plasmid pVR1012x/s containing HIV genes
US-10-359-120-81

Query Match      54.9%; Score 79.6; DB 16; Length 5549;
Best Local Similarity 90.4%; Pred. No. 5.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGCTGCGCGCGCCGACACACATAATCGCTGACACACTGACAGACTGTTCCCTT 111
Db 1786 CTCGTTGCTGCGCGCGCCGACACACATAATAGCTGACAGACTAACAGACTGTTCCCTT 1845

Qy 112 TCCTTTTTTTTTTTTTTGCAGTCACCGTCGTCGAC 145
Db 1846 TCCATGGGTCTTTTCTGCAGTCACCGTCGTCGAC 1879

RESULT 15
US-10-359-120-82
; Sequence 82, Application US/10359120
; Publication No. US20040033487A1
; GENERAL INFORMATION:
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; PRIOR FILING DATE: 2000-08-14
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 5549
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: plasmid pVR1012x/s containing HIV genes
US-10-359-120-80
```

```
Query Match      54.9%; Score 79.6; DB 16; Length 5549;
Best Local Similarity 90.4%; Pred. No. 5.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGCTGCGCGCGCCGACACACATAATCGCTGACACACTGACAGACTGTTCCCTT 111
Db 1786 CTCGTTGCTGCGCGCGCCGACACACATAATAGCTGACAGACTAACAGACTGTTCCCTT 1845

Qy 112 TCCTTTTTTTTTTTTTTGCAGTCACCGTCGTCGAC 145
Db 1846 TCCATGGGTCTTTTCTGCAGTCACCGTCGTCGAC 1879
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RESULT 14
US-10-359-120-81
; Sequence 81, Application US/10359120
; Publication No. US20040033487A1
; GENERAL INFORMATION:
; APPLICANT: NABLE, Gary J.
; APPLICANT: CHAKRABARTI, Bimal K.
; APPLICANT: HUANG, Yue
; TITLE OF INVENTION: MODIFICATIONS OF HIV Env, Gag, AND Pol
; FILE REFERENCE: NIH206.001C1
; CURRENT APPLICATION NUMBER: US/10/359,120
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: PCT/US01/25721
; PRIOR FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: US 60/279,257
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 60/252,115
; PRIOR FILING DATE: 2000-11-14
; PRIOR APPLICATION NUMBER: US 60/225,097
; PRIOR FILING DATE: 2000-08-14
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81
; LENGTH: 5549
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: plasmid pVR1012x/s containing HIV genes
US-10-359-120-81
```

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Query Match      54.9%; Score 79.6; DB 16; Length 5549;
Best Local Similarity 90.4%; Pred. No. 5.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGCTGCGCGCGCCGACACACATAATCGCTGACACACTGACAGACTGTTCCCTT 111
Db 1786 CTCGTTGCTGCGCGCGCCGACACACATAATAGCTGACAGACTAACAGACTGTTCCCTT 1845

Qy 112 TCCTTTTTTTTTTTTTTGCAGTCACCGTCGTCGAC 145
Db 1846 TCCATGGGTCTTTTCTGCAGTCACCGTCGTCGAC 1879
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RESULT 15
US-10-359-120-82
; Sequence 82, Application US/10359120
; Publication No. US20040033487A1
; GENERAL INFORMATION:
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Tue Dec 21 15:52:08 2004

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; APPLICANT: NABLE, Gary J.
; APPLICANT: CHAKRABARTI, Bimal K.
; APPLICANT: HUANG, Yue
; TITLE OF INVENTION: MODIFICATIONS OF HIV Env, Gag, AND Pol
; TITLE OF INVENTION: ENHANCE IMMUNOGENICITY FOR GENETIC IMMUNIZATION
; FILE REFERENCE: NIH206.001C1
; CURRENT APPLICATION NUMBER: US/10/359,120
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: PCT/US01/25721
; PRIOR FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: US 60/279,257
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 60/252,115
; PRIOR FILING DATE: 2000-11-14
; PRIOR APPLICATION NUMBER: US 60/225,097
; PRIOR FILING DATE: 2000-08-14
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 82
; LENGTH: 5549
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: plasmid pVR1012x/s containing HIV genes
US-10-359-120-82

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```

Query Match      54.9%; Score 79,6; DB 16; Length 5549;
Best Local Similarity 90.4%; Pred. No. 5.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY      52 CTCGTTGCTGCCGCGCGCCACACACATATCGCTGACACTGACAGACTGTTTCCTT 111
      |||||
Db      1786 CTCGTTGCTGCCGCGCGCCACACACATATAGCTGACAGACTAACAGACTGTTTCCTT 1845

QY      112 TCCTTTTTCCTTTTTCCTTTTCCTTTTCCTTTTCCTTTTCCTTTTCCTTTTCCTTT 145
      |||||
Db      1846 TCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTT 1879

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Search completed: December 20, 2004, 14:18:48  
Job time : 78.3579 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: December 20, 2004, 13:34:51 ; Search time 444.941 Seconds  
(without alignments)  
10348.284 Million cell updates/sec

Title: US-09-977-066A-1

Perfect score: 834

Sequence: 1 gtaagaccgctatagact.....ctgcagtcaccgtcgtcgac 834

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4093002 seqs, 2760418825 residues

Total number of hits satisfying chosen parameters: 8186004

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

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21: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	827.6	99.2	4328	15	US-10-278-751-2
2	827.6	99.2	4328	16	US-10-445-642-1
3	827.6	99.2	4818	15	US-10-278-751-4
4	827.6	99.2	5107	15	US-10-278-751-3
5	827.6	99.2	5610	13	US-10-090-983-2
6	827.6	99.2	5974	13	US-10-090-983-8
7	827.6	99.2	5974	13	US-10-090-983-1
8	827.6	99.2	7015	9	US-09-770-315-1
9	827.6	99.2	7096	13	US-10-090-983-3
10	827.6	99.2	9600	15	US-10-278-751-1
11	802.6	96.2	12745	18	US-10-781-142-8
12	802	96.2	2361	14	US-10-247-703-50

13	799.2	95.8	4622	9	US-09-846-091-11	Sequence 11, Appl
14	799.2	95.8	5089	10	US-09-993-307-2	Sequence 2, Appl
15	799.2	95.8	5089	10	US-09-993-307-5	Sequence 5, Appl
16	799.2	95.8	5488	10	US-09-993-307-3	Sequence 3, Appl
17	799.2	95.8	5488	10	US-09-993-307-6	Sequence 6, Appl
18	799.2	95.8	5500	10	US-09-993-307-1	Sequence 1, Appl
19	799.2	95.8	5500	10	US-09-993-307-4	Sequence 4, Appl
20	799.2	95.8	6050	9	US-09-491-974-4	Sequence 4, Appl
21	799.2	95.8	6050	16	US-10-394-388A-4	Sequence 4, Appl
22	799.2	95.8	8001	9	US-09-491-974-3	Sequence 3, Appl
23	799.2	95.8	8001	16	US-10-394-388A-3	Sequence 3, Appl
24	799.2	95.8	9918	9	US-09-798-675-5	Sequence 5, Appl
25	799.2	95.8	9918	17	US-10-093-953A-5	Sequence 5, Appl
26	791.2	94.9	824	15	US-10-223-507-56	Sequence 56, Appl
27	778.4	93.3	5108	17	US-10-796-486-51	Sequence 51, Appl
28	778.4	93.3	5108	17	US-10-796-486-52	Sequence 52, Appl
29	778.4	93.3	5111	17	US-10-796-486-55	Sequence 55, Appl
30	778.4	93.3	5185	17	US-10-796-486-47	Sequence 47, Appl
31	778.4	93.3	5188	17	US-10-796-486-59	Sequence 59, Appl
32	778.4	93.3	5254	17	US-10-796-486-60	Sequence 60, Appl
33	778.4	93.3	5549	16	US-10-359-120-80	Sequence 81, Appl
34	778.4	93.3	5549	16	US-10-359-120-81	Sequence 81, Appl
35	778.4	93.3	5549	16	US-10-359-120-82	Sequence 82, Appl
36	778.4	93.3	5549	16	US-10-359-120-83	Sequence 83, Appl
37	778.4	93.3	6438	16	US-10-359-120-157	Sequence 157, App
38	778.4	93.3	6460	16	US-10-359-120-34	Sequence 34, Appl
39	778.4	93.3	6466	16	US-10-359-120-130	Sequence 130, App
40	778.4	93.3	6473	16	US-10-359-120-100	Sequence 100, App
41	778.4	93.3	6486	16	US-10-359-120-158	Sequence 158, App
42	778.4	93.3	6505	16	US-10-359-120-15	Sequence 15, Appl
43	778.4	93.3	6505	16	US-10-359-120-16	Sequence 16, Appl
44	778.4	93.3	6505	16	US-10-359-120-129	Sequence 129, App
45	778.4	93.3	6526	16	US-10-359-120-137	Sequence 137, App

#### ALIGNMENTS

#### RESULT 1

US-10-278-751-2

; Sequence 2, Application US/10278751

; Publication No. US20030185890A1

; GENERAL INFORMATION:

; APPLICANT: Zuckermann et al.

; TITLE OF INVENTION: Compositions and Methods for

; Delivery

; NUMBER OF SEQUENCES: 4

; CORRESPONDENCE ADDRESS:

; ADDRESSER: Chiron Corporation

; STREET: 4560 Horton Street

; CITY: Emeryville

; STATE: California

; COUNTRY: U.S.A.

; ZIP: 94608-2916

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION NUMBER: US/10/278,751

; FILING DATE: 22-Jan-2003

; CLASSIFICATION: <Unknown>

; ATTORNEY/AGENT INFORMATION:

; NAME: Fujita, Sharon M.

; REGISTRATION NUMBER: 38,459

; REFERENCE/DOCKET NUMBER: 1218.002

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (510) 923-2706

; TELEFAX: (510) 655-3542

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 4328 base pairs

Polynucleotide

APPLICANT: Ronald Zuckermann et al.  
TITLE OF INVENTION: Lipid-Conjugated Polyamide Compounds and Related Compositions and Methods Thereof  
NUMBER OF SEQUENCES: 1  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Chiron Corporation  
STREET: 4560 Horton Street  
CITY: Emeryville  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 94608-2916  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION NUMBER: US/10/445,642  
FILING DATE: 27-May-2003  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Fujita, Sharon M.  
REGISTRATION NUMBER: 38,459  
REFERENCE/DOCKET NUMBER: 1387.002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 923-2706  
TELEFAX: (510) 655-3542  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4328 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-10-445-642-1  
Query Match 99.2%; Score 827.6; DB 15; Length 4328;  
Best Local Similarity 99.5%; Pred. No. 1e-267;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
QY 1 GTAAGTACCGCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATAGTG 60  
DB 815 GTAAGTACCGCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATAGTG 874  
QY 61 TTTTGGCTTTGGGCGCTATACACCCCGCTCTTATGCTATAGTGTATAGTATAGCTTAG 120  
DB 875 TTTTGGCTTTGGGCGCTATACACCCCGCTCTTATGCTATAGTGTATAGTATAGCTTAG 934  
QY 121 CCTATAGTGTGGGCTTATGACCACTATTGACCACTCCCTCTTATGGTGACGATCTTTCC 180  
DB 935 CCTATAGTGTGGGCTTATGACCACTATTGACCACTCCCTCTTATGGTGACGATCTTTCC 994  
QY 181 ATTACTAATCATTAACATGGCTCTTTGGCCAACTATCTCTTATGGCTATATGCCAATAC 240  
DB 995 ATTACTAATCATTAACATGGCTCTTTGGCCAACTATCTCTTATGGCTATATGCCAATAC 1054  
QY 241 TCTGTCTTTCAGAGACTGACACGAGCTCTGTATTTTACAGAGTGGGCTCCATTTATTAT 300  
DB 1055 TCTGTCTTTCAGAGACTGACACGAGCTCTGTATTTTACAGAGTGGGCTCCATTTATTAT 1114  
QY 301 TTACAAATTCACATATACAAACGCGCTCCCGTGCGCGAGTGTTTTATTAACATAG 360  
DB 1115 TTACAAATTCACATATACAAACGCGCTCCCGTGCGCGAGTGTTTTATTAACATAG 1174  
QY 361 CGTGGGATCTCGACATCTCGGTACGCTTCCGACATGGCTCTTCTCGGTAGCGGC 420  
DB 1175 CGTGGGATCTCGACATCTCGGTACGCTTCCGACATGGCTCTTCTCGGTAGCGGC 1234  
QY 421 GGAGCTTCCACATCCGAGCCTGTGCTCCATGCTCCAGCGGCTCATGCTCGCTCGGAGC 480  
DB 1235 GGAGCTTCCACATCCGAGCCTGTGCTCCATGCTCCAGCGGCTCATGCTCGCTCGGAGC 1294  
QY 481 TCCTTGTCTCTAAGAGTGGAGCCAGACTTATAGGCACAGCAATGCCACACCAACAGT 540  
DB 1295 TCCTTGTCTCTAAGAGTGGAGCCAGACTTATAGGCACAGCAATGCCACACCAACAGT 1354  
QY 541 GTGCCGCAACAGCCGCTGGCGGTAGGCTATGCTCTGAAATGAGCTCGGAGATTGGGCT 600  
DB 1355 GTGCCGCAACAGCCGCTGGCGGTAGGCTATGCTCTGAAATGAGCTCGGAGATTGGGCT 1414  
QY 601 GSCACCGTGACGACATGGAAGACTTAAAGGACGCGGAGAGAGATGACGACAGCTGAG 660  
DB 1415 GSCACCGTGACGACATGGAAGACTTAAAGGACGCGGAGAGAGATGACGACAGCTGAG 1474  
QY 661 TTGTTGTATTCTGATAAGAGTCAAGAGTAACTCCCGTTGCGGTGCTTTAACGGTGGAGG 720  
DB 1475 TTGTTGTATTCTGATAAGAGTCAAGAGTAACTCCCGTTGCGGTGCTTTAACGGTGGAGG 1534  
QY 721 GCAGTGTAGTCTGACGAGTACTGCTGTGCGCGCGGCGCCACACAGACATATAGCTGAC 780  
DB 1535 GCAGTGTAGTCTGACGAGTACTGCTGTGCGCGCGGCGCCACACAGACATATAGCTGAC 1594  
QY 781 AGACTAACACAGACTGTTCTCTTTCCATGGGCTTTTCTGACAGTCAACCGTCTGTCGAC 834  
DB 1595 AGACTAACACAGACTGTTCTCTTTCCATGGGCTTTTCTGACAGTCAACCGTCTGTCGAC 1648  
RESULT 2  
US-10-445-642-1  
; Sequence 1, Application US/10445642  
; Publication No. US20040018962A1  
; GENERAL INFORMATION:



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QY 481 TCCTTGCTCCTACAGTGGAGCCAGACTTAGGCACAGACAACTGCCACACACAGT 540
Db 1295 TCCTTGCTCCTACAGTGGAGCCAGACTTAGGCACAGACAACTGCCACACACAGT 1354
QY 541 GTCCGACCAAGCCGCGGTAGGCTATGTCTGAAATGAGCTCGGAGATTGGGCT 600
Db 1355 GTCCGACCAAGCCGCGGTAGGCTATGTCTGAAATGAGCTCGGAGATTGGGCT 1414
QY 601 CGCACCGTACGAGATGGAAGACTTAAAGCAGCGGCAGAAAGATGCAAGCAGCTGAG 660
Db 1415 CGCACCGTACGAGATGGAAGACTTAAAGCAGCGGCAGAAAGATGCAAGCAGCTGAG 1474
QY 661 TTGTTGTTATTCGATAAGAGTCAGAGTAACTCCCGTTGCGGTGCTGTTAAACGGTGGAG 720
Db 1475 TTGTTGTTATTCGATAAGAGTCAGAGTAACTCCCGTTGCGGTGCTGTTAAACGGTGGAG 1534
QY 721 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCCGCGCGGCCACACAGACATAATAGCTGAC 780
Db 1535 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCCGCGCGGCCACACAGACATAATAGCTGAC 1594
QY 781 AGACTAACAGACTGTTCCCTTTCCATGGGCTTTTCTGCACTACCGTGTGCGAC 834
Db 1595 AGACTAACAGACTGTTCCCTTTCCATGGGCTTTTCTGCACTACCGTGTGCGAC 1648

RESULT 3
US-10-278-751-4
; Sequence 4, Application US/10278751
; Publication No. US20030185890A1
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESS: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/278,751
; FILING DATE: 22-Jan-2003
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4818 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-278-751-4
Query Match 99.2%; Score 827.6; DB 15; Length 4818;
Best Local Similarity 99.5%; Pred. No. 1.1e-267;
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 1 GTAAGTACCGCTATAGACTTATAGGCACACCCCTTTGGCTCTTATGCTATGCTACTG 60
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Db 818 GTAAGTACCGCTTATAGACTTCTATAGGCACACCCCTTTGGCTCTTATGCTATGCTACTG 877
QY 61 TTTTGGCTTGGGGCCTATACACCCCGCTCCTTATGCTATAGGTGATGCTATAGCTTAG 120
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Db 878 TTTTGGCTTGGGGCCTATACACCCCGCTCCTTATGCTATAGGTGATGCTATAGCTTAG 937
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QY 121 CCTATAGGTGTGGGTTATTGACCACTTATGACCACTCCCTATGCTATGCTATGCTATGCTATGCT 180
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Db 938 CCTATAGGTGTGGGTTATTGACCACTTATGACCACTCCCTATGCTATGCTATGCTATGCTATGCT 997
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QY 181 ATTACTTAATCCCAATACATGGCTCTTTGGCCAACTATCTCTATTGGCTATATGCCAATAC 240
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Db 998 ATTACTTAATCCCAATACATGGCTCTTTGGCCAACTATCTCTATTGGCTATATGCCAATAC 1057
|||||
QY 241 TCTGTCCTTTCAGAGACTGACAGGACTCTGTATTTTACAGATGGGGTCCATTATAT 300
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Db 1058 TCTGTCCTTTCAGAGACTGACAGGACTCTGTATTTTACAGATGGGGTCCATTATAT 1117
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QY 301 TTACAAATTCACATATACAAACGCGGTCCCGGTGCCCGCAGTTTATTAAACATAG 360
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Db 1118 TTACAAATTCACATATACAAACGCGGTCCCGGTGCCCGCAGTTTATTAAACATAG 1177
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QY 361 CGTGGGATCTCGACATCTCGGTAGTGTTCGGACATGGGCTCTTCTCCGCTAGCGGC 420
|||||
Db 1178 CGTGGGATCTCGACATCTCGGTAGTGTTCGGACATGGGCTCTTCTCCGCTAGCGGC 1237
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QY 421 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCCCTCCAGCGGCTCATGGTGGCTCGGCAGC 480
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Db 1238 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCCCTCCAGCGGCTCATGGTGGCTCGGCAGC 1297
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QY 481 TCCTTGCTCTTAACAGTGGAGCCAGACTTAGGCACAGACAACTAGCCACCACTAGCCACCACTAGT 540
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Db 1298 TCCTTGCTCTTAACAGTGGAGCCAGACTTAGGCACAGACAACTAGCCACCACTAGCCACCACTAGT 1357
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QY 541 GTGCCGCACAAAGCCGCTGGCGGTAGGCTATGTCTGAAATCAGCTCGGAGATTGGGCT 600
|||||
Db 1358 GTGCCGCACAAAGCCGCTGGCGGTAGGCTATGTCTGAAATCAGCTCGGAGATTGGGCT 1417
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QY 601 CGCACCGTACGCGAGATGGAAGACTTAAAGCAGCGGCAGAAAGATGCAAGCAGCTGAG 660
|||||
Db 1418 CGCACCGTACGCGAGATGGAAGACTTAAAGCAGCGGCAGAAAGATGCAAGCAGCTGAG 1477
|||||
QY 661 TTGTTGTTATTCGATAAGAGTCAGAGTAACTCCCGTTGCGGTGCTGTTAAACGGTGGAG 720
|||||
Db 1478 TTGTTGTTATTCGATAAGAGTCAGAGTAACTCCCGTTGCGGTGCTGTTAAACGGTGGAG 1537
|||||
QY 721 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCCGCGCGCCACACAGACATAATAGCTGAC 780
|||||
Db 1538 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCCGCGCGCCACACAGACATAATAGCTGAC 1597
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QY 781 AGACTAACAGACTGTTCCCTTTCCATGGGCTTTTCTGCACTACCGTGTGCGAC 834
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Db 1598 AGACTAACAGACTGTTCCCTTTCCATGGGCTTTTCTGCACTACCGTGTGCGAC 1651
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RESULT 4
US-10-278-751-3
; Sequence 3, Application US/10278751
; Publication No. US20030185890A1
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESS: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
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Polynucleotide

Db	1478	TTGTTGATTCCTGATAAGAGTCAGAGGTAACCCCGTTTCGGTGCTGTTAAACGGTGGAGG	1537
QY	721	GCAGTCGTAGTCGTAGCAGTACTCGTTGTCGCGCGCGGCCACACACATATAATAGCTGAC	780
Db	1538	GCAGTGTAGTCGTAGCAGTACTCGTTGTCGCGCGCGGCCACACACATATAATAGCTGAC	1597
QY	781	AGACTAACAGACTGTTCTCTTTCATCGGGCTCTTTCTGCGAGTCACCGTCGTCGAC	834
Db	1598	AGACTAACAGACTGTTCTCTTTCATCGGGCTCTTTCTGCGAGTCACCGTCGTCGAC	1651

## RESULT 5

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US-10-090-983-2
; Sequence 2, Application US/10090983
; Publication No. US20020194630A1
;
; GENERAL INFORMATION:
; APPLICANT: Manning, William C., Jr.
; APPLICANT: Dwardki, Varavani J.
; APPLICANT: Rendahl, Katherine
; APPLICANT: Zhou, Shang-Zhen
; APPLICANT: McGee, Laura H.
; APPLICANT: Lau, Dana
; APPLICANT: Flannery, John G.
; APPLICANT: Miller, Sheldon
; APPLICANT: Wang, Fei
; APPLICANT: Di Polo, Adriana
; TITLE OF INVENTION: USE OF RECOMBINANT GENE DELIVERY VECTORS
; TITLE OF INVENTION: FOR TREATING OR PREVENTING DISEASES OF THE EYE
;
; FILE REFERENCE: PFI588.005 (20263.50)
; CURRENT APPLICATION NUMBER: US/10/090,983
; CURRENT FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 5610
; TYPE: DNA
; ORGANISM: Homo sapien
;
US-10-090-983-2

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Query Match	99.2%	Score 827.6	DB 13	Length 5610
Best Local Similarity	99.5%	Pred. No. 1.2e-267	Indels 0	Gaps 0
Matches 830	Conservative 0	Mismatches 4		
QY	1	GTAAGTACCGGCTATAGAGCTCTATAGGCACACCCGCTTTGGCTCTTATGCGATGCTATATCG	60	
Db	825	GTAAGTACCGCTATAGACTCTATAGGCACACCCGCTTTGGCTCTTATGCGATGCTATATCG	884	
QY	61	TTTTTGGCTTTGGGGCTATACACCCCGCTCCTTATGCTATAGGTGATGGTATAGCTTAG	120	
Db	885	TTTTTGGCTTTGGGGCTATACACCCCGCTCCTTATGCTATAGGTGATGGTATAGCTTAG	944	
QY	121	CCTATAGGTGTGGGTATTATGACCATTATTGACCACTCCCCTATTGGTGACGATATCTTCC	180	
Db	945	CCTATAGGTGTGGGTATTATGACCATTATTGACCACTCCCCTATTGGTGACGATATCTTCC	1000	
QY	181	ATTACTAATCCATAACATGGCTCTTTGGCAACAACTATCTATTGGCTATATGCCAAATAC	240	
Db	1005	ATTACTAATCCATAACATGGCTCTTTGGCAACAACTATCTATTGGCTATATGCCAAATAC	1060	
QY	241	TCGTGTCCTTCAGAGACTGCACGGACTCTGTATTTTTTACAGGATGGGGTCCATTTATTAT	300	
Db	1065	TCGTGTCCTTCAGAGACTGCACGGACTCTGTATTTTTTACAGGATGGGGTCCATTTATTAT	1120	
QY	301	TTACAAATTCACATATACAAACCGGTCCTCCGTCGCCGACAGTTTTTATTAAACATAG	360	
Db	1125	TTACAAATTCACATATACAAACCGGTCCTCCGTCGCCGACAGTTTTTATTAAACATAG	1180	
QY	361	CGTGGGATCTCCGACATCTCGGATACGTGTTCGGACATGGGCTCTTCTCCGGTAGCGGC	420	
Db	1185	CGTGGGATCTCCGACATCTCGGATACGTGTTCGGACATGGGCTCTTCTCCGGTAGCGGC	1240	
QY	421	GGAGCTTCCACATCCGAGCGCTTGCTCCCATGCTCCAGCGGCTCATGGTCTGCTCGGCAGC	480	

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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/10/278,751
  FILING DATE: 22-Jan-2003
  CLASSIFICATION: <Unknown>
  ATTORNEY/AGENT INFORMATION:
    NAME: Fujita, Sharon M.
    REGISTRATION NUMBER: 38,459
    REFERENCE/DOCKET NUMBER: 1218.002
  TELECOMMUNICATION INFORMATION:
    TELEPHONE: (510) 923-2706
    TELEFAX: (510) 655-3542
  INFORMATION FOR SEQ ID NO: 3:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 5107 base pairs
      TYPE: nucleic acid
      STRANDEDNESS: single
      TOPOLOGY: linear
    MOLECULE TYPE: DNA (genomic)
    SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-10-278-751-3

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Query Match	99.2%;	Score 827.6;	DB 15;	Length 5107;
Best Local Similarity	99.5%;	Pred. No. 1.1e-267;		
Matches	830;	Conservative 0;	Mismatches 4;	Indels 0; Gaps 0;
QY	1	GTAAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGTCATGCTATACATG	60	
DB	818	GTAAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGTCATGCTATACATG	877	
QY	61	TTTTTTGGCTTGGGGCCTATACACCCCGCTCCTTATGCTATAGTGTATGCTATAGCTTAG	120	
DB	878	TTTTTTGGCTTGGGGCCTATACACCCCGCTCCTTATGCTATAGTGTATGCTATAGCTTAG	937	
QY	121	CCTATAGTGTGGGTATTTAGCCAAATATTGACCACTCCCTCTATTGGTGACGATACCTTCC	180	
DB	938	CCTATAGTGTGGGTATTTAGCCAAATATTGACCACTCCCTCTATTGGTGACGATACCTTCC	997	
QY	181	ATTACTAATCCATAACATGGCTCTTTGCCCAACTATCTCTATTGGCTATATGCCCAATAC	240	
DB	998	ATTACTAATCCATAACATGGCTCTTTGCCCAACTATCTCTATTGGCTATATGCCCAATAC	1057	
QY	241	TCTGTCTCTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGGTCCATTTATTAT	300	
DB	1058	TCTGTCTCTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGGTCCATTTATTAT	1117	
QY	301	TTACAAATTCACATATACAAACACGGCTCCCGCTGCCCGCAGTCTTTTATTTAAACATAG	360	
DB	1118	TTACAAATTCACATATACAAACACGGCTCCCGCTGCCCGCAGTCTTTTATTTAAACATAG	1177	
QY	361	CGTGGGATCTCCGACATCTCCGGGTACGTTGTTCCGACATGGGCTCTCTCCGGTAGCGGC	420	
DB	1178	CGTGGGATCTCCGACATCTCCGGGTACGTTGTTCCGACATGGGCTCTCTCCGGTAGCGGC	1237	
QY	421	GSAGCTTCCACATCCGAGCCCTGTGCCATGCCTCCAGCGGCTCATGGTCGCTCGGCAGC	480	
DB	1238	GSAGCTTCCACATCCGAGCCCTGTGCCATGCCTCCAGCGGCTCATGGTCGCTCGGCAGC	1297	
QY	481	TCCTTTGCTCTTAACAGTGGAGGCCAGACTTAGGCACACGACAATGCCCAACACACCACT	540	
DB	1298	TCCTTTGCTCTTAACAGTGGAGGCCAGACTTAGGCACACGACAATGCCCAACACCACT	1357	
QY	541	GTGCCGCAACAGCCGTGGCGGTAGGGTATGTGTCTGAAATGAGCTCGGAGATTTGGCT	600	
DB	1358	GTGCCGCAACAGCCGTGGCGGTAGGGTATGTGTCTGAAATGAGCTCGGAGATTTGGCT	1417	
QY	601	CGCACCTGACACAGATGGAAGACTTTAAGGCAGCGGCAGAGAAGATCAGGCGAGCTGAG	660	
DB	1418	CGCACCTGACACAGATGGAAGACTTTAAGGCAGCGGCAGAGAAGATCAGGCGAGCTGAG	1477	
QY	661	TTGTTGTATTTCTAAGAGTCCAGAGGTTAACTCCCGCTTGGCTGCTGTTTAAACGTTGGAG	720	

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Db 1245 GGAGCTTCCACATCCGAGCCCTGGTCCATCGTCCAGCGGCTCATGGTCCGTCGGCAGC 1304
Qy 481 TCCTTGCTCTCTAAACAGTGGAGGCGCAGACTTAGGCACAGCACAATGCCACCACCACAGT 540
Db 1305 TCCTTGCTCTCTAAACAGTGGAGGCGCAGACTTAGGCACAGCACAATGCCACCACCACAGT 1364
Qy 541 GTGCCGACACAGGCGCTGGCGGTAGGGTATGTGTCTGAAAATGAGCTCGGAGATTGGGCT 600
Db 1365 GTGCCGACACAGGCGCTGGCGGTAGGGTATGTGTCTGAAAATGAGCTCGGAGATTGGGCT 1424
Qy 601 CGCACCGTGACGACAGATGGAAGACTTAAGGCAGCGGCAGAGAAGATGCAGGCGAGCTTGAG 660
Db 1425 CGCACCTGGACGACAGATGGAAGACTTAAGGCAGCGGCAGAGAAGATGCAGGCGAGCTTGAG 1484
Qy 661 TTGTTGTTATTTCTGATAAGAGTCAAGAGTAACTCCCGTTGGCGTGTCTGTTAAACGGTGGAGG 720
Db 1485 TTGTTGTTATTTCTGATAAGAGTCAAGAGTAACTCCCGTTGGCGTGTCTGTTAAACGGTGGAGG 1544
Qy 721 GCAGTGTAGTCTGAGCAGTACTGTTCTGTCGCGGCGCGCCACCAGACATAATAGCTGAC 780
Db 1545 GCAGTGTAGTCTGAGCAGTACTGTTCTGTCGCGGCGCGCCACCAGACATAATAGCTGAC 1604
Qy 781 AGACTAACAGACTGTTCTCTTTTCCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 834
Db 1605 AGACTAACAGACTGTTCTCTTTTCCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 1658
```

## RESULT 6

```
US-10-090-983-8
; Sequence 8, Application US/10090983
; Publication No. US20020194630A1
; GENERAL INFORMATION:
; APPLICANT: Manning, William C., Jr.
; APPLICANT: Dwardki, Varavani J.
; APPLICANT: Rendahl, Katherine
; APPLICANT: Zhou, Shang-Zhen
; APPLICANT: McGee, Laura H.
; APPLICANT: Lau, Dana
; APPLICANT: Flannery, John G.
; APPLICANT: Miller, Sheldon
; APPLICANT: Wang, Fei
; APPLICANT: Di Polo, Adriana
; TITLE OF INVENTION: USE OF RECOMBINANT GENE DELIVERY VECTORS
; TITLE OF INVENTION: FOR TREATING OR PREVENTING DISEASES OF THE EYE
; FILE REFERENCE: PP1588.005 (20263.50)
; CURRENT APPLICATION NUMBER: US/10/090.983
; CURRENT FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 5974
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-090-983-8
```

Query Match 99.2%; Score 827.6; DB 13; Length 5974;

Best Local Similarity 99.5%; Pred. No. 1.2e-267;

Mismatches 0; Conservative 0; Gaps 0; Indels 0; Gaps 0;

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Qy 1 GTAAGTACCCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCTATGCTACTG 60
Db 825 GTAAGTACCCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCTATGCTACTG 884
Qy 61 TTTTGGCTTTGGGCTTATACACCCCGCTCTTATGCTATGCTATGCTATGCTATGCTATGCT 120
Db 885 TTTTGGCTTTGGGCTTATACACCCCGCTCTTATGCTATGCTATGCTATGCTATGCTATGCT 944
Qy 121 CCTATAGGTGGGTATTTGACCATTTATGACCATCTCCCTATTTGGTGACGATACTTCC 180
Db 945 CCTATAGGTGGGTATTTGACCATTTATGACCATCTCCCTATTTGGTGACGATACTTCC 1004
Qy 181 ATTACTAATCATACATGGCTCTTTGCCACAATCTCTCTATTTGGCTATATGCCAATAC 240
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Db 1005 ATTACTAATCATACATGGCTCTTTGCCACAATCTCTCTATTTGGCTATATGCCAATAC 1064
Qy 241 TCTGTCTCTTACAGACTGACACGGACTCTGTATTTTTTACAGGATGGGGTCCATTTATTAT 300
Db 1065 TCTGTCTCTTACAGACTGACACGGACTCTGTATTTTTTACAGGATGGGGTCCATTTATTAT 1124
Qy 301 TTACAAATTCACATATACAAACAGCGGCTCCCGGTCGCCGCGAGTTTTTTATTAACAATAG 360
Db 1125 TTACAAATTCACATATACAAACAGCGGCTCCCGGTCGCCGCGAGTTTTTTATTAACAATAG 1184
Qy 361 CGTGGGATCTCCGACATCTCGGCTAGCTGTTCCGGACATCGGCTCTTCTCCGCTAGCGGC 420
Db 1185 CGTGGGATCTCCGACATCTCGGCTAGCTGTTCCGGACATCGGCTCTTCTCCGCTAGCGGC 1244
Qy 421 GGAGCTTTCACATCCGAGCGCTCGTCCCATGCTCCAGCGGCTCATGGTCTCGTCGGCAGC 480
Db 1245 GGAGCTTTCACATCCGAGCGCTCGTCCCATGCTCCAGCGGCTCATGGTCTCGTCGGCAGC 1304
Qy 481 TCCTTGCTCTTAAACAGTGGAGGCGCAGACTTAGGCACAGCACAATGCCACCACCACAGT 540
Db 1305 TCCTTGCTCTTAAACAGTGGAGGCGCAGACTTAGGCACAGCACAATGCCACCACCACAGT 1364
Qy 541 GTGCCGACACAGGCGCTGGCGGTAGGCTATGTCTGAAATCAGCTCGGAGATTGGGCT 600
Db 1365 GTGCCGACACAGGCGCTGGCGGTAGGCTATGTCTGAAATCAGCTCGGAGATTGGGCT 1424
Qy 601 CGCACCGTGACGACAGTGAAGACTTAAGGCAGCGGCAGAGAAGATGCAGGCGAGCTTGAG 660
Db 1425 CGCACCTGGAGCGCAGATGGAAGACTTAAGGCAGCGGCAGAGAAGATGCAGGCGAGCTTGAG 1484
Qy 661 TTGTTGTTATTTCTGATAAGAGTCAAGAGTAACTCCCGTTGGCGTGTCTGTTAAACGGTGGAGG 720
Db 1485 TTGTTGTTATTTCTGATAAGAGTCAAGAGTAACTCCCGTTGGCGTGTCTGTTAAACGGTGGAGG 1544
Qy 721 GCAGTGTAGTCTGAGCAGTACTGTTCTGTCGCGGCGCGCCACCAGACATAATAGCTGAC 780
Db 1545 GCAGTGTAGTCTGAGCAGTACTGTTCTGTCGCGGCGCGCCACCAGACATAATAGCTGAC 1604
Qy 781 AGACTAACAGACTGTTCTCTTTTCCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 834
Db 1605 AGACTAACAGACTGTTCTCTTTTCCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 1658
```

## RESULT 7

```
US-10-090-983-1
; Sequence 1, Application US/10090983
; Publication No. US20020194630A1
; GENERAL INFORMATION:
; APPLICANT: Manning, William C., Jr.
; APPLICANT: Dwardki, Varavani J.
; APPLICANT: Rendahl, Katherine
; APPLICANT: Zhou, Shang-Zhen
; APPLICANT: McGee, Laura H.
; APPLICANT: Lau, Dana
; APPLICANT: Flannery, John G.
; APPLICANT: Miller, Sheldon
; APPLICANT: Wang, Fei
; APPLICANT: Di Polo, Adriana
; TITLE OF INVENTION: USE OF RECOMBINANT GENE DELIVERY VECTORS
; TITLE OF INVENTION: FOR TREATING OR PREVENTING DISEASES OF THE EYE
; FILE REFERENCE: PP1588.005 (20263.50)
; CURRENT APPLICATION NUMBER: US/10/090.983
; CURRENT FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 6514
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-090-983-1
```

Query Match 99.2%; Score 827.6; DB 13; Length 6514;

Best Local Similarity 99.5%; Pred. No. 1.3e-267; Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;	
QY	1 GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTACTG 60
Db	1018 GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTACTG 1077
QY	61 TTTTGTGGCTTGGGCGCTATACACCCCGCTCTCTTATGCTATAGGTGATGGTATAGCTTAG 120
Db	1078 TTTTGTGGCTTGGGCGCTATACACCCCGCTCTCTTATGCTATAGGTGATGGTATAGCTTAG 1137
QY	121 CCTATAGGTGTGGTATTATGACATATTGACACATCCCTCTATTTGGTGACGATCTTTCC 180
Db	1138 CCTATAGGTGTGGTATTATGACATATTGACACATCCCTCTATTTGGTGACGATCTTTCC 1197
QY	181 ATTACTAATCCATAACATGGCTCTTTGCCACAACATCTCTATTGGGCTATATGCCAATAC 240
Db	1198 ATTACTAATCCATAACATGGCTCTTTGCCACAACATCTCTATTGGGCTATATGCCAATAC 1257
QY	241 TCTGTCTCTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGGTCCATTTATTAT 300
Db	1258 TCTGTCTCTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGGTCCATTTATTAT 1317
QY	301 TTACAAATTCACATATACAAACGCGCTGCCCGTCCGCGCAGTTTTATTAAACATAG 360
Db	1318 TTACAAATTCACATATACAAACGCGCTGCCCGTCCGCGCAGTTTTATTAAACATAG 1377
QY	361 CGTGGGATCTCCGACATCTCGGTACGTTGTTCCGGACATGGGCTCTTCTCCGGTAGCGGC 420
Db	1378 CGTGGGATCTCCGACATCTCGGTACGTTGTTCCGGACATGGGCTCTTCTCCGGTAGCGGC 1437
QY	421 GGAGCTTCCACATCCGAGCCCTGTGCCATGCTCCAGCGGCTCATGGTCGTCGGCAGC 480
Db	1438 GGAGCTTCCACATCCGAGCCCTGTGCCATCCGTCAGCGGCTCATGGTCGTCGGCAGC 1497
QY	481 TCCTTGTCTTAAACAGTGGAGGCAGACTTAGGCACAGCAAAATGCCACACACACAGT 540
Db	1498 TCCTTGTCTTAAACAGTGGAGGCAGACTTAGGCACAGCAAAATGCCACACACACAGT 1557
QY	541 GTGCGGCACAAGGCGGTGGCGGTAGGGTATGTGCTGAAAAATGAGCTCGGAGATGGGCT 600
Db	1558 GTGCGGCACAAGGCGGTGGCGGTAGGGTATGTGCTGAAAATGAGCTCGGAGATGGGCT 1617
QY	601 CGCACCGGTAGCCAGATGGAAAGCTTAAGGCAGCGGCAGAAAGATGACGCGAGCTGAG 660
Db	1618 CGCACCTGGAACGAGATGGAAAGCTTAAGGCAGCGGCAGAAAGATGACGCGAGCTGAG 1677
QY	661 TTGTTGTATTCTGATTAAGAGTCAAGGTAACTCCCGTTGCCGTCTGTTAAACGGTGGAGG 720
Db	1678 TTGTTGTATTCTGATTAAGAGTCAAGGTAACTCCCGTTGCCGTCTGTTAAACGGTGGAGG 1737
QY	721 GCAGTGTAGTCTGAGCAGTACTCTGTTGCTGCCGCGCGCCACACAGATAATAGCTGAC 780
Db	1738 GCAGTGTAGTCTGAGCAGTACTCTGTTGCTGCCGCGCGCCACACAGATAATAGCTGAC 1797
QY	781 AGACTAAACAGACTGTTCTTTCATGGGTCTTTTCTGCAGTCAACGTCGTGCAC 834
Db	1798 AGACTAAACAGACTGTTCTTTCATGGGTCTTTTCTGCAGTCAACGTCGTGCAC 1851

[illegible]

RESULT 9  
US-10-090-983-3  
; Sequence 3, Application US/10090983

```

; Publication No. US20020194630A1
; GENERAL INFORMATION:
; APPLICANT: Manning, William C., Jr.
; APPLICANT: Dwarki, Varavani J.
; APPLICANT: Rendahl, Katherine
; APPLICANT: Zhou, Shang-Zhen
; APPLICANT: McGee, Laura H.
; APPLICANT: Lau, Dana
; APPLICANT: Flannery, John G.
; APPLICANT: Miller, Sheldon
; APPLICANT: Wang, Fei
; APPLICANT: Di Polo, Adriana
; TITLE OF INVENTION: USE OF RECOMBINANT GENE DELIVERY VECTORS
; FILE REFERENCE: PP1588.005 (20263.50)
; CURRENT APPLICATION NUMBER: US/10/090,983
; CURRENT FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 7096
; TYPE: DNA
; ORGANISM: Homo sapien
; US-10-090-983-3

Query Match
Best Local Similarity 99.2%; Score 827.6; DB 13; Length 7096;
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTGGCTCTTATGATGCTACTG 60
Db 825 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTGGCTCTTATGATGCTACTG 884

Qy 61 TTTTGGCTTGGGGCCCTATACACCCCGCTCTTATGCTATAGTATGATGCTAGTAG 120
Db 885 TTTTGGCTTGGGGCCCTATACACCCCGCTCTTATGCTATAGTATGATGCTAGTAG 944

Qy 121 CCTATAGGTGGGTATTGACCATATTGACCACTCCCTATGTCCTTATGTCAGTACTTCC 180
Db 945 CCTATAGGTGGGTATTGACCATATTGACCACTCCCTATGTCCTTATGTCAGTACTTCC 1004

Qy 181 ATTACTAATCCATAACATGCTCTTTGGCCAACTACTCTATTTTACAGGATGGGTCCATTAT 240
Db 1005 ATTACTAATCCATAACATGCTCTTTGGCCAACTACTCTATTTTACAGGATGGGTCCATTAT 1064

Qy 241 TCTGTCTCTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGTCCATTAT 300
Db 1065 TCTGTCTCTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGTCCATTAT 1124

Qy 301 TTACAAATTCACATATACAAACACGGCTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCT 360
Db 1125 TTACAAATTCACATATACAAACACGGCTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCT 1184

Qy 361 CGTGGGATCTCCGACATCTCGGTACGTGTTCGGACATGGGTCTTCTCCGGTAGCGGC 420
Db 1185 CGTGGGATCTCCGACATCTCGGTACGTGTTCGGACATGGGTCTTCTCCGGTAGCGGC 1244

Qy 421 GGAGCTTCCACATCCGAGCCCTGTGTCCTATGCTCCAGCGGCTCATGGTCCGCTCGGCAGC 480
Db 1245 GGAGCTTCCACATCCGAGCCCTGTGTCCTATGCTCCAGCGGCTCATGGTCCGCTCGGCAGC 1304

Qy 481 TCCTTGTCTCTAACAGTGGAGGCCAGACTTTAGGCACAGCAATGCCACCAACCAAGT 540
Db 1305 TCCTTGTCTCTAACAGTGGAGGCCAGACTTTAGGCACAGCAATGCCACCAACCAAGT 1364

Qy 541 GTCCCGCACAGCGCGGTGGGTAGGTATGTCTGAAATAGCTCGAGATGGGCT 600
Db 1365 GTCCCGCACAGCGCGGTGGGTAGGTATGTCTGAAATAGCTCGAGATGGGCT 1424

Qy 601 CGCACCGTGACGACATGGAAGACTTTAAGGCAGCGGCAGAGAAGATGACGAGGAGCTGAG 660
Db 1425 CGCACCGTGACGACATGGAAGACTTTAAGGCAGCGGCAGAGAAGATGACGAGGAGCTGAG 1484

661 TTGTTGTATTTCTGATAAGAGTACAGAGTAATCCCTGTTGGGTGCTGTTAAACGGTGGAGG 720
1485 TTGTTGTATTTCTGATAAGAGTACAGAGTAATCCCTGTTGGGTGCTGTTAAACGGTGGAGG 1544

721 GCAGTGTAGTCTGAGCAGTACTGTTGCTGCGCGCGCGCCACACAGACATAATAGCTGAC 780
1545 GCAGTGTAGTCTGAGCAGTACTGTTGCTGCGCGCGCGCCACACAGACATAATAGCTGAC 1604

781 AGACTAACACAGACTGTTCCCTTCCATGGGTCTTTTCTGCACTACCCGTCGTCGAC 834
1605 AGACTAACACAGACTGTTCCCTTCCATGGGTCTTTTCTGCACTACCCGTCGTCGAC 1658

RESULT 10
US-10-278-751-1
; Sequence 1, Application US/10278751
; Publication No. US20030185890A1
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for Delivery
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/278,751
; FILING DATE: 22-Jan-2003
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9600 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-278-751-1

Query Match
Best Local Similarity 99.5%; Pred. No. 1.5e-267;
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTGGCTCTTATGATGCTACTG 60
Db 5920 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTGGCTCTTATGATGCTACTG 5979

61 TTTTGGCTTGGGGCCCTATACACCCCGCTCTTATGCTATAGTATGATGCTAGCTTAG 120
Db 5980 TTTTGGCTTGGGGCCCTATACACCCCGCTCTTATGCTATAGTATGATGCTAGCTTAG 6039

121 CCTATAGGTGGGTATTGACCATATTGACCACTCCCTATTTGGTACGATACCTTTCC 180
Db 6040 CCTATAGGTGGGTATTGACCATATTGACCACTCCCTATTTGGTACGATACCTTTCC 6099

181 ATTACTAATCCATAACATGCTCTTTGGCCAACTACTCTATTTTGGCTATATGCCAATAC 240
```

Db 6100 ATTACTAATCCATAACATGAGCTCTTTGCCACAACACTATCTCTATTGGCTATATGCCAATAC 6159  
Qy 241 TCTGTCTCTCAGAGACTGACACCGACTCTCTGTAATTTTACAGGATGGGTCATTTATTAT 300  
Db 6160 TCTGTCTCTCAGAGACTGACACCGACTCTCTGTAATTTTACAGGATGGGTCATTTATTAT 6219  
Qy 301 TTACAAATTCACATATACACACCGCTCCCGCTGCCCGCAGTTTATTATAACATAG 360  
Db 6220 TTACAAATTCACATATACACACCGCTCCCGCTGCCCGCAGTTTATTATAACATAG 6279  
Qy 361 CGTGGGATCTCCGACATCTCGGGTACCTGTTCCGGACATGGGCTCTTCTCCGGTAGCGGC 420  
Db 6280 CGTGGGATCTCCGACATCTCGGGTACCTGTTCCGGACATGGGCTCTTCTCCGGTAGCGGC 6339  
Qy 421 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGTCTCGGCAGC 480  
Db 6340 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGTCTCGGCAGC 6399  
Qy 481 TCCTTGCTCTTACAGTGGAGGCCAGACTTAGGCACAGCACAATGCCACACACCAGT 540  
Db 6400 TCCTTGCTCTTAAAGTGGAGGCCAGACTTAGGCACAGCACAATGCCACACACCAGT 6459  
Qy 541 GTGCCGACACAGGCGGTGGGTAGGTATGTCTGAAATAGACTCGAGATTGGGCT 600  
Db 6460 GTGCCGACACAGGCGGTGGGTAGGTATGTCTGAAATAGACTCGAGATTGGGCT 6519  
Qy 601 CGCACCGTGCAGCAGATGGAAGACTTAAGGACGCGGCAGAGAAGATGCCAGGAGCTGAG 660  
Db 6520 CGCACCTGCAGCAGATGGAAGACTTAAGGACGCGGCAGAGAAGATGCCAGGAGCTGAG 6579  
Qy 661 TTGTTGTTATCTGATAGAGTCAGAGTAACTCCCGTTGGGCTGCTGTTAACGGTGGAGG 720  
Db 6580 TTGTTGTTATCTGATAGAGTCAGAGTAACTCCCGTTGGGCTGCTGTTAACGGTGGAGG 6639  
Qy 721 CGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGGCCACACAGACATATAGCTGAC 780  
Db 6640 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGGCCACACAGACATATAGCTGAC 6699  
Qy 781 AGACTAACAGACTGTTCTTCCATGGGTCTTTCTGCAAGTCACCGTCTGAC 834  
Db 6700 AGACTAACAGACTGTTCTTCCATGGGTCTTTCTGCAAGTCACCGTCTGAC 6753

RESULT 11

US-10-781-142-8  
; Sequence 8, Application US/10781142  
; Publication No. US20040192630A1  
; GENERAL INFORMATION:  
; APPLICANT: Kyrkanides, Stephanos  
; TITLE OF INVENTION: VECTORS HAVING BOTH ISOFORMS OF  
; TITLE OF INVENTION: BETA-HEXOSAMINIDASE AND USES OF THE SAME  
; FILE REFERENCE: 21108.0040U1  
; CURRENT APPLICATION NUMBER: US/10/781,142  
; CURRENT FILING DATE: 2004-02-18  
; PRIOR APPLICATION NUMBER: PCT/US03/13672  
; PRIOR FILING DATE: 2003-05-03  
; PRIOR APPLICATION NUMBER: 60/377,503  
; PRIOR FILING DATE: 2002-05-02  
; NUMBER OF SEQ ID NOS: 71  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 8  
; LENGTH: 12745  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:/Note =  
; OTHER INFORMATION: Synthetic Construct  
US-10-781-142-8

Query Match 96.2%; Score 802.6; DB 18; Length 12745;  
Best Local Similarity 99.0%; Pred. No. 58-259; 4; Indels 4; Gaps 2;  
Matches 829; Conservative 0; Mismatches

Qy 1 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATACGTG 60  
Db 3102 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATACGTG 3161  
Qy 61 TTTTGGCTTGGGGCTATACACCCCGCTCTTATGCTATAGGTGATGGTATAGCTTAG 120  
Db 3162 TTTTGGCTTGGGGCTATACACCCCGCTCTTATGCTATAGGTGATGGTATAGCTTAG 3221  
Qy 121 CCTATAGGTGCTGGTATTATGACCATATTATGACACATCCCTTATTTGGTACGATACCTTTCC 180  
Db 3222 CCTATAGGTGCTGGTATTATGACCATATTATGACACATCCCTTATTTGGTACGATACCTTTCC 3281  
Qy 181 ATTACTAATCCATAAATGAGCTCTTTGGCCAACTATCTCTATTTGGCTATATGCCAATAC 240  
Db 3282 ATTACTAATCCATAAATGAGCTCTTTGGCCAACTATCTCTATTTGGCTATATGCCAATAC 3341  
Qy 241 TCTGTCTCTCAGAGACTGACCGGACTCTGTAATTTTACAGGATGGGT-CCATTTTATTATTA 299  
Db 3342 TCTGTCTCTCAGAGACTGACCGGACTCTGTAATTTTACAGGATGGGTCCCATTTTATTATTA 3401  
Qy 300 TTTTACAAATTCACATATACAAACCGCTCCCGCTGCCCGCAGTTTTTATTTAAACATA 359  
Db 3402 TTTTACAAATTCACATATACAAACCGCTCCCGCTGCCCGCAGTTTTTATTTAAACATA 3461  
Qy 360 GCGTGGGATCTCC--GACATCTCGGGTACGTGTTCCGGACATGGGCTCTTCTCCGGTAG 416  
Db 3462 GCGTGGGATCTCCACCGGAATCTCGGGTACGTGTTCCGGACATGGGCTCTTCTCCGGTAG 3521  
Qy 417 CGCGGAGCTTCCACATCCGAGCCCTGCTCCCATGCTCCAGCGGCTCATGGTCTCGTCCG 476  
Db 3522 CGCGGAGCTTCCACATCCGAGCCCTGCTCCCATGCTCCAGCGGCTCATGGTCTCGTCCG 3581  
Qy 477 CAGCTCTCTGCTCTTAAACAGTGAGGCCAGACTTAGGCACAGCAATGCCACACCCAC 536  
Db 3582 CAGCTCTCTGCTCTTAAACAGTGAGGCCAGACTTAGGCACAGCAATGCCACACCCAC 3641  
Qy 537 CAGTGTGCCCAACAGCCCGTGGGTAGGTATGTCTGAAAAATGAGTCCGAGATTG 596  
Db 3642 CAGTGTGCCCAACAGCCCGTGGGTAGGTATGTCTGAAAAATGAGTCCGAGATTG 3701  
Qy 597 GGCTCGCACCGTCCAGCATGGAAGACTTAAGCGCGGCAGAGAAGATGACGGCAGC 656  
Db 3702 GGCTCGCACCGTCCAGCATGGAAGACTTAAGCGCGGCAGAGAAGATGACGGCAGC 3761  
Qy 657 TGAGTTGTTGTTATTTCTGATAGAGTACAGAGTAACTCCCGTTGGGCTGTTAAACGGTG 716  
Db 3762 TGAGTTGTTGTTATTTCTGATAGAGTACAGAGTAACTCCCGTTGGGCTGTTAAACGGTG 3821  
Qy 717 GAGGGCAGTGTAGTCTGAGCAGTACTCGTTGCTGCCGCGCGCCACACAGACATAATAGC 776  
Db 3822 GAGGGCAGTGTAGTCTGAGCAGTACTCGTTGCTGCCGCGCGCCACACAGACATAATAGC 3881  
Qy 777 TGACAGACTAACAGACTGTTCTTTCCATGGGTCTTTTCTGCACTACCGTCTGCGA 833  
Db 3882 TGACAGACTAACAGACTGTTCTTTCCATGGGTCTTTTCTGCACTACCGTCTGCGA 3938

RESULT 12

US-10-247-703-50  
; Sequence 50, Application US/10247703  
; Publication No. US20030063597A1  
; GENERAL INFORMATION:  
; APPLICANT: Branigan, Patrick  
; APPLICANT: Goletz, Theresa J  
; APPLICANT: Knight, David M  
; APPLICANT: McCarthy, Stephen G  
; APPLICANT: Scallion, Bernard J  
; APPLICANT: Snyder, Linda A  
; TITLE OF INVENTION: NUCLEIC ACID VACCINES USING TUMOR ANTIGEN ENCODING NUCLEIC ACIDS  
; FILE REFERENCE: CEN310  
; CURRENT APPLICATION NUMBER: US/10/247,703  
; CURRENT FILING DATE: 2002-09-20

; PRIOR APPLICATION NUMBER: 60/328,371  
; PRIOR FILING DATE: 2001-10-10  
; NUMBER OF SEQ ID NOS: 77  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 50  
; LENGTH: 2361  
; TYPE: DNA  
; ORGANISM: Human cytomegalovirus  
US-10-247-703-50

Query Match 96.2%; Score 802; DB 14; Length 2361;  
Best Local Similarity 98.9%; Pred. No. 3.2e-259;  
Matches 829; Conservative 0; Mismatches 5; Indels 4; Gaps 2;

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RESULT 13

US-09-846-091-11

; Sequence 11, Application US/09846091  
; Patent No. US20020165176A1  
; GENERAL INFORMATION:  
; APPLICANT: HAYNES, Joel R.  
; APPLICANT: MACKLIN, Michael D.  
; APPLICANT: PAYNE, London G.  
; TITLE OF INVENTION: NUCLEIC ACID IMMUNIZATION  
; FILE REFERENCE: APF40  
; CURRENT APPLICATION NUMBER: US/09/846,091  
; PRIOR FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: US/09/561,951  
; PRIOR FILING DATE: 2000-05-01  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 11  
; LENGTH: 4622  
; TYPE: DNA  
; ORGANISM: pM2-FL plasmid  
US-09-846-091-11

Query Match 95.8%; Score 799.2; DB 9; Length 4622;  
Best Local Similarity 99.2%; Pred. No. 4e-258;  
Matches 825; Conservative 0; Mismatches 3; Indels 4; Gaps 2;

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DB 2070 GTAAGTACCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATAGCTTAG 2129
QY 61 TTTTGGCTTGGGCTTATACACCCCGCTCTTATGCTATAGGTGATGCTATAGCTTAG 120
DB 2130 TTTTGGCTTGGGCTTATACACCCCGCTCTTATGCTATAGGTGATGCTATAGCTTAG 2189
QY 121 CCTATAGGTGCTGTTATGACCACTTATGACCACTCCCTTATGCTATGCTATGCTATGCTTAG 180
DB 2190 CCTATAGGTGCTGTTATGACCACTTATGACCACTCCCTTATGCTATGCTATGCTATGCTTAG 2249
QY 181 ATTACTAATCCATAACATGCTCTTTGCCCAAACTATCTATGCTATATGCCAATAC 240
DB 2250 ATTACTAATCCATAACATGCTCTTTGCCCAAACTATCTATGCTATATGCCAATAC 2309
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DB 2370 TTTTACAAATTCACATATACAAACCGCTCCCGTCCCGCAGTTTTTTTAAACATA 2429
QY 360 GCGTGGGATCTCC---GACATCTCGGCTACGTTTCCGACATGGGCTCTTCTCCGGTAG 416
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; Sequence 2, Application US/09993307			
; Publication No. US20030162733A1			
; GENERAL INFORMATION:			
; APPLICANT: HAYNES, Joel R.			
; APPLICANT: ARRINGTON, Joshua			
; TITLE OF INVENTION: NUCLEIC ACID ADJUVANTS			
; FILE REFERENCE: APP41.20			
; CURRENT APPLICATION NUMBER: US/09/993,307			
; CURRENT FILING DATE: 2001-11-26			
; PRIOR APPLICATION NUMBER: 60/253,381			
; PRIOR FILING DATE: 2000-11-27			
; NUMBER OF SEQ ID NOS: 26			
; SOFTWARE: PatentIn version 3.1			
; SEQ ID NO 2			
; LENGTH: 5089			
; TYPE: DNA			
; ORGANISM: pPUV2003 plasmid			
US-09-993-307-2			
Query Match 95.8%; Score 799.2; DB 10; Length 5089;			
Best Local Similarity 99.2%; Pred. No. 4.2e-258;			
Matches 825; Conservative 0; Mismatches 3; Indels 4; Gaps 2;			
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Qy	61	TTTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGGTGATGCTATAGCTTAG	120
Db	3121	TTTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGGTGATGCTATAGCTTAG	3180
Qy	121	CCTATAGGTGGGTATTGACCACTATTGACCACTCCCTTATTTGGTGACGATACTTTCC	180
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Qy	181	ATTACTAATCCATAACATGGCTCTTTGGCCAACTATCTCTATTGGCTATATGCCAATAC	240
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Qy	537	CAGTGTCCGCGCAACAGGCGGTAGGCTAGGCTGCTGAAATGAGCTCGGAGATTG	596
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; Sequence 5, Application US/09993307			
; Publication No. US20030162733A1			
; GENERAL INFORMATION:			
; APPLICANT: HAYNES, Joel R.			
; APPLICANT: ARRINGTON, Joshua			
; TITLE OF INVENTION: NUCLEIC ACID ADJUVANTS			
; FILE REFERENCE: APP41.20			
; CURRENT APPLICATION NUMBER: US/09/993,307			
; CURRENT FILING DATE: 2001-11-26			
; PRIOR APPLICATION NUMBER: 60/253,381			
; PRIOR FILING DATE: 2000-11-27			
; NUMBER OF SEQ ID NOS: 26			
; SOFTWARE: PatentIn version 3.1			
; SEQ ID NO 5			
; LENGTH: 5089			
; TYPE: DNA			
; ORGANISM: pPUV2005 plasmid			
US-09-993-307-5			
Query Match 95.8%; Score 799.2; DB 10; Length 5089;			
Best Local Similarity 99.2%; Pred. No. 4.2e-258;			
Matches 825; Conservative 0; Mismatches 3; Indels 4; Gaps 2;			
Qy	1	GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCAATGCTATAGTG	60
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Qy	121	CCTATAGGTGGGTATTGACCACTATTGACCACTCCCTTATTTGGTGACGATACTTTCC	180
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Qy	181	ATTACTAATCCATAACATGGCTCTTTGGCCAACTATCTCTATTGGCTATATGCCAATAC	240
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Qy	241	TCTGTCTTCCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGT-CCATTTATTA	299
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Qy	300	TTTACAAATTCACATATACAAACGCGCTCCCGCTGCGCGAGTTTATTTATTAACAATA	359
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Qy	417	CGGCGGAGCTTCCATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGTCCGCTCGG	476
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Qy	537	CAGTGTCCGCGCAACAGGCGGTAGGCTAGGCTGCTGAAATGAGCTCGGAGATTG	596
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Qy	477	CAGTCTCTTCTCTTAACAGTGGAGCCAGACTTAGGCAAGCACAATGCCACCAC	536
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Qy	657	TGAGTTGTTGTTATCTGATTAAGAGTCAGAGGTAACCTCCGTTGGGTGCTGTTAACGGTG	716
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Qy	717	GAGGGCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCCACACACATAATAGC	776
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Qy	777	TGACAGACTAACAGACTGTTCTTTCATGGGTCTTTTCTGCACTCACCGTC	828
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Copyright (c) 1993 - 2004 CompuGen Ltd.

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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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38	730.6	87.6	8068	4	US-09-301-593-37	Sequence 27, Appl
39	730.6	87.6	8068	4	US-09-301-593-35	Sequence 35, Appl
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c 41	730.6	87.6	13254	1	US-08-276-852-170	Sequence 170, App
c 42	730.6	87.6	13254	1	US-08-899-575-156	Sequence 156, App
c 43	730.6	87.6	13254	1	US-08-899-575-170	Sequence 170, App
c 44	730.6	87.6	13254	1	US-08-899-575-156	Sequence 156, App
c 45	730.6	87.6	13254	1	US-08-899-575-170	Sequence 170, App

ALIGNMENTS

RESULT 1

US-09-721-480-1  
; Sequence 1, Application US/09721480  
; Patent No. 6740323  
; GENERAL INFORMATION:  
; APPLICANT: Selby, Mark  
; APPLICANT: Glazer, Edward  
; APPLICANT: Houghton, Michael  
; TITLE OF INVENTION: HBV/HCV VIRUS-LIKE PARTICLE  
; FILE REFERENCE: PP01635.002  
; CURRENT APPLICATION NUMBER: US/09/721,480  
; CURRENT FILING DATE: 2000-11-22  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 4276  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: plasmid pCMVII  
US-09-721-480-1

Query Match	99.2%	Score 827.6;	DB 4;	Length 4276;
Best Local Similarity	99.5%	Pred. No. 1.4e-266;		
Matches	830;	Conservative	0;	Mismatches 4;
				Indels 0;
				Gaps 0;
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Qy	61	TTTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGTGTATAGCTTAG	120	
Db	1204	TTTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGTGTATAGCTTAG	1263	
Qy	121	CTTATAGTGTGGGTTTATTTGACCATTTATGACCACTCCCTTATTTGGTGACGATACTTTC	180	
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Qy 361 CGTGGATCTCCGACATCTCGGTACGTGTTCCGACATCGGCTCTTCTCCGCTAGCGC 420
Db 1504 CGTGGATCTCCGACATCTCGGTACGTGTTCCGACATCGGCTCTTCTCCGCTAGCGC 1563
Qy 421 GGAGCTTCCACATCCGAGCCCTGCTCCCATGCTCCGAGCGGCTCATGGTCTCGGCGC 480
Db 1564 GGAGCTTCCACATCCGAGCCCTGCTCCCATGCTCCGAGCGGCTCATGGTCTCGGCGC 1623
Qy 481 TCCCTGCTCTTAAACAGTGGAGCCAGACTTAGGCACAGCAACAATGCCACACCACAGT 540
Db 1624 TCCCTGCTCTTAAACAGTGGAGCCAGACTTAGGCACAGCAACAATGCCACACCACAGT 1683
Qy 541 GTGCCGACAGGCGCGGTAGGCTATGCTCTGAAATGAGCTCGGAGATTGGGCT 600
Db 1684 GTGCCGACAGGCGCGGTAGGCTATGCTCTGAAATGAGCTCGGAGATTGGGCT 1743
Qy 601 CGCACCGTGACGAGATGGAAGACTTAAGGAGCGGCGAGAGAAAGATGCGAGCTGAG 660
Db 1744 CGCACCGTGACGAGATGGAAGACTTAAGGAGCGGCGAGAGAAAGATGCGAGCTGAG 1803
Qy 661 TTGTTGATCTGATAAGAGTCAGAGTAACTCCCGTTGGGTCTGTTAACGGTGGAG 720
Db 1804 TTGTTGATCTGATAAGAGTCAGAGTAACTCCCGTTGGGTCTGTTAACGGTGGAG 1863
Qy 721 GCAGTGTAGTCTGAGCAGTACTCTGTTGCTGCGGCGCGCCACAGACATAATAGCTGAC 780
Db 1864 GCAGTGTAGTCTGAGCAGTACTCTGTTGCTGCGGCGCGCCACAGACATAATAGCTGAC 1923
Qy 781 AGACTAACAGACTGTTCTTCCATGGGTCTTTTCTGAGTCACCGTCTGCGAC 834
Db 1924 AGACTAACAGACTGTTCTTCCATGGGTCTTTTCTGAGTCACCGTCTGCGAC 1977
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## RESULT 2

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US-09-132-808-1
; Sequence 1, Application US/09132808
; Patent No. 6197332
; GENERAL INFORMATION:
; APPLICANT: Ronald Zuckermann et al.
; TITLE OF INVENTION: Lipid-Conjugated Polyamide Compounds and Related
; COMPOSITIONS AND METHODS THEREOF
; NUMBER OF SEQUENCES: 1
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/132,808
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1387.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4328 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-09-132-808-1
```

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Query Match 99.2%; Score 827.6; DB 3; Length 4328;
Best Local Similarity 99.5%; Pred. No. 1.4e-266;
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCTATGCTATGCTATGCT 60
Db 815 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCTATGCTATGCTATGCT 874
Qy 61 TTTTGGCTTTGGGCTTATACACCCCGCTCTTATGCTATGCTATGCTATGCTATGCTATGCTATGCT 120
Db 875 TTTTGGCTTTGGGCTTATACACCCCGCTCTTATGCTATGCTATGCTATGCTATGCTATGCTATGCT 934
Qy 121 CCTATAGGTGTGGGTTATTGACCAATTATTGACCACTCCCTATGCTATGCTATGCTATGCTATGCT 180
Db 935 CCTATAGGTGTGGGTTATTGACCAATTATTGACCACTCCCTATGCTATGCTATGCTATGCTATGCT 994
Qy 181 ATTACTAATCCATAACATGCTCTTTGGCCAACTATCTTATGCTATGCTATGCTATGCTATGCTATGCT 240
Db 995 ATTACTAATCCATAACATGCTCTTTGGCCAACTATCTTATGCTATGCTATGCTATGCTATGCTATGCT 1054
Qy 241 TCTGTCTCTCAGAGACTGACACGAGCTCTGTTATTTTACAGGATGGGCTCCATTTATTTAT 300
Db 1055 TCTGTCTCTCAGAGACTGACACGAGCTCTGTTATTTTACAGGATGGGCTCCATTTATTTAT 1114
Qy 301 TTACAAATTCCATATATACAAACGCGCTCCCGCTGCCCGAGTTTTTATTTAAACATAG 360
Db 1115 TTACAAATTCCATATATACAAACGCGCTCCCGCTGCCCGAGTTTTTATTTAAACATAG 1174
Qy 361 CGTGGGATCTCCGACATCTCGGCTAGCTGTTCCGGACATCGGCTCTTCTCCGCTAGCGGC 420
Db 1175 CGTGGGATCTCCGACATCTCGGCTAGCTGTTCCGGACATCGGCTCTTCTCCGCTAGCGGC 1234
Qy 421 GGAGCTTCCACATCCGAGCCCTGCTCCATCGCTCCAGCGGCTCATGCTCGCTCGGCGC 480
Db 1235 GGAGCTTCCACATCCGAGCCCTGCTCCATCGCTCCAGCGGCTCATGCTCGCTCGGCGC 1294
Qy 481 TCCTTGTCTCTAAACAGTGGAGGCGAGCTTAGGCACAGCAATGCCACACCACCCAGT 540
Db 1295 TCCTTGTCTCTAAACAGTGGAGGCGAGCTTAGGCACAGCAATGCCACACCACCCAGT 1354
Qy 541 GTGCCGACAGGCGGCTAGGCTATGCTCTGAAATGAGCTCGGAGATTGGGCT 600
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Db 1415 CGCACCGTGAGCGAGATGGAAGACTTAAGGCGAGCGGCGAGAGAGATCGAGGCGAGCTGAG 1474
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Db 1475 TTGTTGTATTCTGATAAGAGTCAGAGTTAACTCCGTTGGGTGCTGTTAACGGTGGAGG 1534
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Db 1535 GCAGTGTAGTCTGAGCAGTACTCTGCTCGCGCGCGCCACAGACATAATAGCTGAC 1594
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## RESULT 3

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US-08-910-647-2
; Sequence 2, Application US/08910647
; Patent No. 6251433
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; TITLE OF INVENTION: Polynucleotide Delivery
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
US-08-910-647-2
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; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: US/08/910,647
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4328 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-910-647-2

Query Match          99.2%; Score 827.6; DB 3; Length 4328;
Best Local Similarity 99.5%; Pred. No. 1.4e-266;
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GTAAAGTACCGCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTTACTG 60
DB |||||
QY 815 GTAAAGTACCGCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTTACTG 874
DB |||||
QY 61 TTTTGGCTTTGGGCGCTATACACCCCGCTCTTATAGCTATAGTGTATAGCTTAG 120
DB |||||
QY 875 TTTTGGCTTTGGGCGCTATACACCCCGCTCTTATAGCTATAGTGTATAGCTTAG 934
DB |||||
QY 121 CCTATAGTGTGGTATTGACCATTTATGACCACTCCCTATTGGTGAGACTTTCC 180
DB |||||
QY 935 CCTATAGTGTGGTATTGACCATTTATGACCACTCCCTATTGGTGAGACTTTCC 994
DB |||||
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DB |||||
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DB |||||
QY 1115 TTACAAATTCACATATACACACCGCGTCCCGCTCCCGCGAGTTTATTTAAACATAG 1174
DB |||||
QY 361 CGTGGGATCTCCGACATCTCGGGTACGTGTTCGGACATGGCTCTTCTCCGGTAGCGGC 420
DB |||||
QY 1175 CGTGGGATCTCCGACATCTCGGGTACGTGTTCGGACATGGGCTCTTCTCCGGTAGCGGC 1234
DB |||||
QY 421 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGTCTCGCGCAGC 480
DB |||||
QY 1235 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGTCTCGCGCAGC 1294
DB |||||
QY 481 TCCTTGCTCTCAAGTGGAGGCGAGACTTAGGACAGCAATGCCACCAACCAAGT 540
DB |||||
QY 1295 TCCTTGCTCTCAAGTGGAGGCGAGACTTAGGACAGCAATGCCACCAACCAAGT 1354
DB |||||
QY 541 GTCCCGCACAGGCGGTGGCGGTAGGGTATGTCTGAAATAGAGCTCGGAGATTGGGCT 600
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QY 1355 GTCCCGCACAGGCGGTGGCGGTAGGGTATGTCTGAAATAGAGCTCGGAGATTGGGCT 1414
DB |||||

STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: U.S.A.
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
FILING DATE: US/08/910,647
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Fujita, Sharon M.
REGISTRATION NUMBER: 38,459
REFERENCE/DOCKET NUMBER: 1218.002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 923-2706
TELEFAX: (510) 655-3542
SEQUENCE CHARACTERISTICS:
LENGTH: 4328 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-910-647-2

Query Match          99.2%; Score 827.6; DB 3; Length 4328;
Best Local Similarity 99.5%; Pred. No. 1.4e-266;
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GTAAAGTACCGCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTTACTG 60
DB |||||
QY 815 GTAAAGTACCGCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTTACTG 874
DB |||||
QY 61 TTTTGGCTTTGGGCGCTATACACCCCGCTCTTATAGCTATAGTGTATAGCTTAG 120
DB |||||
QY 875 TTTTGGCTTTGGGCGCTATACACCCCGCTCTTATAGCTATAGTGTATAGCTTAG 934
DB |||||
QY 121 CCTATAGTGTGGTATTGACCATTTATGACCACTCCCTATTGGTGAGACTTTCC 180
DB |||||
QY 935 CCTATAGTGTGGTATTGACCATTTATGACCACTCCCTATTGGTGAGACTTTCC 994
DB |||||
QY 181 ATTACTAATCCATAACATGCTCTTTGCCACAACATCTCTATTGGCTATATGCCAATAC 240
DB |||||
QY 995 ATTACTAATCCATAACATGCTCTTTGCCACAACATCTCTATTGGCTATATGCCAATAC 1054
DB |||||
QY 241 TCTGTCTTCAGAGACTGACACCGACTCTGTATTTTACAGGATGGGGTCCATTATTAT 300
DB |||||
QY 1055 TCTGTCTTCAGAGACTGACACCGACTCTGTATTTTACAGGATGGGGTCCATTATTAT 1114
DB |||||
QY 301 TTACAAATTCACATATACACACCGCGTCCCGCTCCCGCGAGTTTATTTAAACATAG 360
DB |||||
QY 1115 TTACAAATTCACATATACACACCGCGTCCCGCTCCCGCGAGTTTATTTAAACATAG 1174
DB |||||
QY 361 CGTGGGATCTCCGACATCTCGGGTACGTGTTCGGACATGGCTCTTCTCCGGTAGCGGC 420
DB |||||
QY 1175 CGTGGGATCTCCGACATCTCGGGTACGTGTTCGGACATGGGCTCTTCTCCGGTAGCGGC 1234
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QY 421 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGTCTCGCGCAGC 480
DB |||||
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DB |||||
QY 481 TCCTTGCTCTCAAGTGGAGGCGAGACTTAGGACAGCAATGCCACCAACCAAGT 540
DB |||||
QY 1295 TCCTTGCTCTCAAGTGGAGGCGAGACTTAGGACAGCAATGCCACCAACCAAGT 1354
DB |||||
QY 541 GTCCCGCACAGGCGGTGGCGGTAGGGTATGTCTGAAATAGAGCTCGGAGATTGGGCT 600
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QY 1355 GTCCCGCACAGGCGGTGGCGGTAGGGTATGTCTGAAATAGAGCTCGGAGATTGGGCT 1414
DB |||||

RESULT 4
US-09-620-925-2
; Sequence 2, Application US/09620925
; Patent No. 6468986
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; POLYNUCLEOTIDE DELIVERY
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 21-Jul-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/910,647
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4328 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-620-925-2

Query Match          99.2%; Score 827.6; DB 4; Length 4328;
Best Local Similarity 99.5%; Pred. No. 1.4e-266;
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GTAAAGTACCGCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTTACTG 60
DB |||||
QY 815 GTAAAGTACCGCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTTACTG 874
DB |||||
QY 61 TTTTGGCTTTGGGCGCTATACACCCCGCTCTTATAGCTATAGTGTATAGCTTAG 120
DB |||||
QY 875 TTTTGGCTTTGGGCGCTATACACCCCGCTCTTATAGCTATAGTGTATAGCTTAG 934
DB |||||
QY 121 CCTATAGTGTGGTATTGACCATTTATGACCACTCCCTATTGGTGAGACTTTCC 180
DB |||||
QY 935 CCTATAGTGTGGTATTGACCATTTATGACCACTCCCTATTGGTGAGACTTTCC 994
DB |||||
QY 181 ATTACTAATCCATAACATGCTCTTTGCCACAACATCTCTATTGGCTATATGCCAATAC 240
DB |||||
QY 995 ATTACTAATCCATAACATGCTCTTTGCCACAACATCTCTATTGGCTATATGCCAATAC 1054
DB |||||
QY 241 TCTGTCTTCAGAGACTGACACCGACTCTGTATTTTACAGGATGGGGTCCATTATTAT 300
DB |||||
QY 1055 TCTGTCTTCAGAGACTGACACCGACTCTGTATTTTACAGGATGGGGTCCATTATTAT 1114
DB |||||
QY 301 TTACAAATTCACATATACACACCGCGTCCCGCTCCCGCGAGTTTATTTAAACATAG 360
DB |||||
QY 1115 TTACAAATTCACATATACACACCGCGTCCCGCTCCCGCGAGTTTATTTAAACATAG 1174
DB |||||
QY 361 CGTGGGATCTCCGACATCTCGGGTACGTGTTCGGACATGGCTCTTCTCCGGTAGCGGC 420
DB |||||
QY 1175 CGTGGGATCTCCGACATCTCGGGTACGTGTTCGGACATGGGCTCTTCTCCGGTAGCGGC 1234
DB |||||
QY 421 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGTCTCGCGCAGC 480
DB |||||
QY 1235 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGTCTCGCGCAGC 1294
DB |||||
QY 481 TCCTTGCTCTCAAGTGGAGGCGAGACTTAGGACAGCAATGCCACCAACCAAGT 540
DB |||||
QY 1295 TCCTTGCTCTCAAGTGGAGGCGAGACTTAGGACAGCAATGCCACCAACCAAGT 1354
DB |||||
QY 541 GTCCCGCACAGGCGGTGGCGGTAGGGTATGTCTGAAATAGAGCTCGGAGATTGGGCT 600
DB |||||
QY 1355 GTCCCGCACAGGCGGTGGCGGTAGGGTATGTCTGAAATAGAGCTCGGAGATTGGGCT 1414
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Db 875 TTTTGGCTTGGGCTATACACCCCGCTCCTTATGCTATAGGTGATGCTATAGCTTAG 934  
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Db 935 CCTATAGGTGGGTATTGACCATATTGACCACTCCCTTATGCTATAGGTGATGCTTAGCTTCC 994  
Qy 181 ATTACTAATCATATACATGCTCTTTGGCCAACTATCTTATTTGCTATATGCTATATGCCAATAC 240  
Db 995 ATTACTAATCATATACATGCTCTTTGGCCAACTATCTTATTTGCTATATGCTATATGCCAATAC 1054  
Qy 241 TCTGTCCTTCAGAGCTGACACCGGCTCTGCTATTTTACAGGATGGGTCCTATTTAT 300  
Db 1055 TCTGTCCTTCAGAGCTGACACCGGCTCTGCTATTTTACAGGATGGGTCCTATTTAT 1114  
Qy 301 TTACAAATTCATATATCAACACCGGCTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCT 360  
Db 1115 TTACAAATTCATATATCAACACCGGCTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCT 1174  
Qy 361 CGTGGGATCCCGACATCTCGGCTACGTTTCCGGACATGGGCTCTTCTCCGGTAGCGGC 420  
Db 1175 CGTGGGATCCCGACATCTCGGCTACGTTTCCGGACATGGGCTCTTCTCCGGTAGCGGC 1234  
Qy 421 GGAGCTTCCCATCCGAGCTCTGCTCCATGCTCCAGCGGCTCATGGTCTCGGAGC 480  
Db 1235 GGAGCTTCCCATCCGAGCTCTGCTCCATGCTCCAGCGGCTCATGGTCTCGGAGC 1294  
Qy 481 TCCTTGTCTTCAACAGTGGAGCCAGACTTATAGGCACAGCAATGCCACCAACCCAGT 540  
Db 1295 TCCTTGTCTTCAACAGTGGAGCCAGACTTATAGGCACAGCAATGCCACCAACCCAGT 1354  
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Qy 661 TTGTTGTATCTGATAAGAGTCAGAGTAACTCCCGTTCGGTCTGTTAAACGTTGGAGG 720  
Db 1475 TTGTTGTATCTGATAAGAGTCAGAGTAACTCCCGTTCGGTCTGTTAAACGTTGGAGG 1534  
Qy 721 CGAGTGTAGTCTGACAGTACTCGTTGCTGCGCGCGGCGGAGAGATGAGCTGAG 780  
Db 1535 CGAGTGTAGTCTGACAGTACTCGTTGCTGCGCGCGGCGGAGAGATGAGCTGAG 1594  
Qy 781 AGACTAACAGACTGTTCCTTTCCATGGGCTTTTCTGCACTCAGCTCAGCTCGTGCAC 834  
Db 1595 AGACTAACAGACTGTTCCTTTCCATGGGCTTTTCTGCACTCAGCTCAGCTCGTGCAC 1648

RESULT 5

US-09-620-260-1  
; Sequence 1, Application US/09620260  
; Patent No. 6569450  
; GENERAL INFORMATION:  
; APPLICANT: Ronald Zuckermann et al.  
; TITLE OF INVENTION: Lipid-Conjugated Polyamide Compounds and Related  
; Compositions and Methods Thereof  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Chiron Corporation  
; STREET: 4560 Horton Street  
; City: Emeryville  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 94608-2916  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/620,260  
FILING DATE: 09-Oct-2001  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Fujita, Sharon M.  
REGISTRATION NUMBER: 38,459  
REFERENCE/DOCKET NUMBER: 1387.002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 923-2706  
TELEFAX: (510) 655-3542  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4328 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-09-620-260-1

Query Match 99.2%; Score 827.6; DB 4; Length 4328;  
Best Local Similarity 99.5%; Pred. No. 1.4e-266;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
Qy 1 GTAAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATAGT 60  
Db 815 GTAAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATAGT 874  
Qy 61 TTTTGGCTTGGGCTTATACACCCCGCTCTTATGCTATAGTATGCTATAGTATAGCTTAG 120  
Db 875 TTTTGGCTTGGGCTTATACACCCCGCTCTTATGCTATAGTATGCTATAGTATAGCTTAG 934  
Qy 121 CCTATAGGTGGGCTTATGACCATATTGACCACTCCCTATTTGAGAGATCTTTTCC 180  
Db 935 CCTATAGGTGGGCTTATGACCATATTGACCACTCCCTATTTGAGAGATCTTTTCC 994  
Qy 181 ATTACTAATCCATAACATGCTCTTTGCGCAACTATCTATTTGCTATATGCTATATGCTA 240  
Db 995 ATTACTAATCCATAACATGCTCTTTGCGCAACTATCTATTTGCTATATGCTATATGCTA 1054  
Qy 241 TCTGTCCTTCAGAGCTGACACCGGCTCTGCTATTTTACAGGATGGGCTCCATTTAT 300  
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Qy 301 TTACAAATTCATATATCAACACCGGCTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCT 360  
Db 1115 TTACAAATTCATATATCAACACCGGCTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCT 1174  
Qy 361 CGTGGGATCCCGACATCTCGGCTACGTTTCCGGACATGGGCTCTTCTCCGGTAGCGGC 420  
Db 1175 CGTGGGATCCCGACATCTCGGCTACGTTTCCGGACATGGGCTCTTCTCCGGTAGCGGC 1234  
Qy 421 GGAGCTTCCCATCCGAGCTCTGCTCCATGCTCCAGCGGCTCATGGTCTCGGAGC 480  
Db 1235 GGAGCTTCCCATCCGAGCTCTGCTCCATGCTCCAGCGGCTCATGGTCTCGGAGC 1294  
Qy 481 TCCTTGTCTTCAACAGTGGAGCCAGACTTATAGGCACAGCAATGCCACCAACCCAGT 540  
Db 1295 TCCTTGTCTTCAACAGTGGAGCCAGACTTATAGGCACAGCAATGCCACCAACCCAGT 1354  
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Db 1355 GTGCGCACAGGCGCTGGCGGTAGGTATGCTGCTGAAATAGCTCGGAGATGGGCT 1414  
Qy 601 CGCACCTGACGCGAGATGGAAGACTTATAGGCAGCGGCGGAGAGAGATGAGCTGAG 660  
Db 1415 CGCACCTGACGCGAGATGGAAGACTTATAGGCAGCGGCGGAGAGAGATGAGCTGAG 1474  
Qy 661 TTGTTGTATCTGATAAGAGTCAGAGTAACTCCCGTTCGGTCTGTTAAACGTTGGAGG 720  
Db 1475 TTGTTGTATCTGATAAGAGTCAGAGTAACTCCCGTTCGGTCTGTTAAACGTTGGAGG 1534  
Qy 721 CGAGTGTAGTCTGACAGTACTCTGTTGCTGCGCGCGGCGGAGAGATGAGCTGAG 780



Db 1535 GCAGTGTAGTCTGAGCAGTACTGTTGCTCCGCGCGCCACGACATATAGCTGAC 1594  
Qy 781 AGACTAACAGACTGTTCTTCCATGGGTCTTTTCTGCACTACCGCTGCTGAC 834  
Db 1595 AGACTAACAGACTGTTCTTCCATGGGTCTTTTCTGCACTACCGCTGCTGAC 1648

RESULT 6  
US-09-620-259-1  
; Sequence 1, Application US/09620259  
; Patent No. 6572881  
; GENERAL INFORMATION:  
; APPLICANT: Ronald Zuckermann et al.  
; TITLE OF INVENTION: Lipid-Conjugated Polyamide Compounds and Related  
; Compositions and Methods Thereof  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 94608-2916  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/620,259  
; FILING DATE: 03-Oct-2001  
; CLASSIFICATION: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fujita, Sharon M.  
; REGISTRATION NUMBER: 38,459  
; REFERENCE/DOCKET NUMBER: 1387,002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (510) 923-2706  
; TELEFAX: (510) 655-3542  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4328 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-09-620-259-1

Query Match 99.2%; Score 827.6; DB 4; Length 4328;  
Best Local Similarity 99.5%; Pred. No. 1.4e-266;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GTAAGTACCGCCTATAGACTCTATAGCAGACCCCTTTGGCTCTTATGATGCTACTG 60  
Db 815 GTAAGTACCGCCTATAGACTCTATAGCAGACCCCTTTGGCTCTTATGATGCTACTG 874  
Qy 61 TTTTGGCTTTGGGGCTTATACACCCCGCTCTTATGCTATAGTGTATGCTAGCTTAG 120  
Db 875 TTTTGGCTTTGGGGCTTATACACCCCGCTCTTATGCTATAGTGTATGCTAGCTTAG 934  
Qy 121 CCTATAGGTGGGTATTGACCACTATTGACCACTCCCTATTGGTGACGATACTTTC 180  
Db 935 CCTATAGGTGGGTATTGACCACTATTGACCACTCCCTATTGGTGACGATACTTTC 994  
Qy 181 ATTACTAATCATTAACATAGCTCTTTGCCCACTATCTCTATTTGGCTATATGCCAATAC 240  
Db 995 ATTACTAATCATTAACATAGCTCTTTGCCCACTATCTCTATTTGGCTATATGCCAATAC 1054  
Qy 241 TCTGTCTCTCAGAGCTGACGAGCTCTGTATTTTACAGGATGGGTCCATTATTAT 300  
Db 1055 TCTGTCTCTCAGAGCTGACGAGCTCTGTATTTTACAGGATGGGTCCATTATTAT 1114

Qy 301 TTACAAATTCACATATACAAACGCGCTCCCGCTGCCCGCAGTTTATTATAACATAG 360  
Db 1115 TTACAAATTCACATATACAAACGCGCTCCCGCTGCCCGCAGTTTATTATAACATAG 1174  
Qy 361 CGTGGGATCTCCGACATCTCGGGTACGTGTCCGGACATGGGCTCTTCTCCGCTAGCGGC 420  
Db 1175 CGTGGGATCTCCGACATCTCGGGTACGTGTCCGGACATGGGCTCTTCTCCGCTAGCGGC 1234  
Qy 421 GGAGCTTCCACATCCGAGCGCTGGTCCCATGCTCCAGCGGCTCATGTGCTCGGCAGC 480  
Db 1235 GGAGCTTCCACATCCGAGCGCTGGTCCCATGCTCCAGCGGCTCATGTGCTCGGCAGC 1294  
Qy 481 TCCTTCTCTTAACAGTGGAGCCAGACTTAGGCACAGCAATGCCACCAACACAGT 540  
Db 1295 TCCTTCTCTTAACAGTGGAGCCAGACTTAGGCACAGCAATGCCACCAACACAGT 1354  
Qy 541 GTGCCGACAAAGCGCTGGCGGTAGGGTATGTCTCTGAAATCAGCTCGGAGATTGGGCT 600  
Db 1355 GTGCCGACAAAGCGCTGGCGGTAGGGTATGTCTCTGAAATCAGCTCGGAGATTGGGCT 1414  
Qy 601 CGCACCGTGACGAGATGGAAGACTTTAAGCGAGCGGCGGACAGAAAGATGCAAGCAGCTGAG 660  
Db 1415 CGCACCGTGAGCGAGATGGAAGACTTTAAGCGAGCGGCGGACAGAAAGATGCAAGCAGCTGAG 1474  
Qy 661 TTGTTGTTATTCGATAAGAGTACAGAGTAACTCCCGTTGGGCTGCTGTTAACCGTGGAGG 720  
Db 1475 TTGTTGTTATTCGATAAGAGTACAGAGTAACTCCCGTTGGGCTGCTGTTAACCGTGGAGG 1534  
Qy 721 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCGGCGGACAGACATAATAGCTGAC 780  
Db 1535 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCGGCGGACAGACATAATAGCTGAC 1594  
Qy 781 AGACTAACAGACTGTTCTTCCATGGGTCTTTTCTGCACTACCGCTGCTGAC 834  
Db 1595 AGACTAACAGACTGTTCTTCCATGGGTCTTTTCTGCACTACCGCTGCTGAC 1648

## RESULT 7

US-08-910-647-4  
; Sequence 4, Application US/08910647  
; Patent No. 6251433  
; GENERAL INFORMATION:  
; APPLICANT: Zuckermann et al.  
; TITLE OF INVENTION: Compositions and Methods for  
; Delivery of Polynucleotides  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 94608-2916  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/910,647  
; FILING DATE:  
; CLASSIFICATION: 514  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fujita, Sharon M.  
; REGISTRATION NUMBER: 38,459  
; REFERENCE/DOCKET NUMBER: 1218,002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (510) 923-2706  
; TELEFAX: (510) 655-3542  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4818 base pairs

; TYPE: nucleic acid									
; STRANDEDNESS: single									
; TOPOLOGY: linear									
; MOLECULE TYPE: DNA (genomic)									
US-08-910-647-4									
Query Match 99.2%; Score 827.6; DB 3; Length 4818;									
Best Local Similarity 99.5%; Pred. No. 1.5e-266;									
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;									
Qy	1	GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG	60						
Db	818	GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG	877						
Qy	61	TTTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGGTGATGCTAGCTTAG	120						
Db	878	TTTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGGTGATGCTAGCTTAG	937						
Qy	121	CCTATAGGTGGGCTTATGACCACTATTGACCACTCCCTATGCTATAGGTGATGCTTAG	180						
Db	938	CCTATAGGTGGGCTTATGACCACTATTGACCACTCCCTATGCTATAGGTGATGCTTAG	997						
Qy	181	ATTACTAATTCATATAACATGCGCTCTTTGGCCAACTATCTTATGGCTATATGCAATAC	240						
Db	998	ATTACTAATTCATATAACATGCGCTCTTTGGCCAACTATCTTATGGCTATATGCAATAC	1057						
Qy	241	TCTGTCTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGCTCCATTTATTAT	300						
Db	1058	TCTGTCTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGCTCCATTTATTAT	1117						
Qy	301	TTACAAATTCATATACAAACACCGCGTCCCGTCCCGGTCGCGGTCCTTCTCGGTAGCGGC	420						
Db	1118	TTACAAATTCATATACAAACACCGCGTCCCGTCCCGGTCGCGGTCCTTCTCGGTAGCGGC	1177						
Qy	361	CGTGGATCTCGGATCTCGGTACGCTCTTCCGACATGGGCTCTTCCGGTAGCGGC	480						
Db	1178	CGTGGATCTCGGATCTCGGTACGCTCTTCCGACATGGGCTCTTCCGGTAGCGGC	1237						
Qy	421	GGAGCTTCCACATCCGAGCCCTGTGTCCTCCAGCGGCTCATGTCGCTCGGAGC	480						
Db	1238	GGAGCTTCCACATCCGAGCCCTGTGTCCTCCAGCGGCTCATGTCGCTCGGAGC	1297						
Qy	481	TCCTTGCTCCTAAACAGTGGAGCCAGACTTAGGCACAGCAATGCCACCACCACTG	540						
Db	1298	TCCTTGCTCCTAAACAGTGGAGCCAGACTTAGGCACAGCAATGCCACCACCACTG	1357						
Qy	541	GTGCGCACAAGGCGCGTGGGTAGGGTATGTGTCTGAAATGAGCTCGGAGATTGGCT	600						
Db	1358	GTGCGCACAAGGCGCGTGGGTAGGGTATGTGTCTGAAATGAGCTCGGAGATTGGCT	1417						
Qy	601	CGACCGTGACGACATGGAGACTTAAAGGCAGCGGAGAGAGATGAGCGAGCTGAG	660						
Db	1418	CGACCGTGACGACATGGAGACTTAAAGGCAGCGGAGAGAGATGAGCGAGCTGAG	1477						
Qy	661	TTGTGTGTTATCTGATAAGAGTCAAGGTAACCTCCCGTTGCGGTGCTGTTAAACGGTGGAG	720						
Db	1478	TTGTGTGTTATCTGATAAGAGTCAAGGTAACCTCCCGTTGCGGTGCTGTTAAACGGTGGAG	1537						
Qy	721	CGAGTGTAGTCTGAGCAGTACTGCTGTGCGCGCGGCGCCACACAGATATAGCTGAC	780						
Db	1538	CGAGTGTAGTCTGAGCAGTACTGCTGTGCGCGCGGCGCCACACAGATATAGCTGAC	1597						
Qy	781	AGACTAACAGACTGTGTCCTTTCCATGGGCTCTTTCTGCACTCAGCTCGTCCGAC	834						
Db	1598	AGACTAACAGACTGTGTCCTTTCCATGGGCTCTTTCTGCACTCAGCTCGTCCGAC	1651						
RESULT 8									
US-09-620-925-4									
; Sequence 4; Application US/09620925									
; Patent No. 648986									
; GENERAL INFORMATION:									
; APPLICANT: Zuckermann et al.									

TITLE OF INVENTION: Compositions and Methods for Polynucleotide Delivery

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS: ADDRESSEE: Chiron Corporation STREET: 4560 Horton Street CITY: Emeryville STATE: California COUNTRY: U.S.A. ZIP: 94608-2916

COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION NUMBER: US/09/620,925

APPLICATION DATE: 21-Jul-2000

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA: APPLICATION NUMBER: 08/910,647 FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION: NAME: Fujita, Sharon M. REGISTRATION NUMBER: 38,459 REFERENCE/DOCKET NUMBER: 1218.002 TELECOMMUNICATION INFORMATION: TELEPHONE: (510) 923-2706 TELEFAX: (510) 655-3542

INFORMATION FOR SEQ ID NO: 4: SEQUENCE CHARACTERISTICS: LENGTH: 4818 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear MOLECULE TYPE: DNA (genomic) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-09-620-925-4

Query Match 99.2%; Score 827.6; DB 4; Length 4818; Best Local Similarity 99.5%; Pred. No. 1.5e-266; Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy	1	GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG	60
Db	818	GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG	877
Qy	61	TTTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGGTGATGCTAGCTTAG	120
Db	878	TTTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGGTGATGCTAGCTTAG	937
Qy	121	CCTATAGGTGGGCTTATGACCACTATTGACCACTCCCTATGCTATAGGTGATGCTTAG	180
Db	938	CCTATAGGTGGGCTTATGACCACTATTGACCACTCCCTATGCTATAGGTGATGCTTAG	997
Qy	181	ATTACTAATTCATATAACATGCGCTCTTTGGCCAACTATCTTATGGCTATATGCAATAC	240
Db	998	ATTACTAATTCATATAACATGCGCTCTTTGGCCAACTATCTTATGGCTATATGCAATAC	1057
Qy	241	TCTGTCTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGCTCCATTTATTAT	300
Db	1058	TCTGTCTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGCTCCATTTATTAT	1117
Qy	301	TTACAAATTCATATACAAACACCGCGTCCCGTCCCGGTCGCGGTCCTTCTCGGTAGCGGC	420
Db	1118	TTACAAATTCATATACAAACACCGCGTCCCGTCCCGGTCGCGGTCCTTCTCGGTAGCGGC	1177
Qy	361	CGTGGATCTCGGATCTCGGTACGCTCTTCCGACATGGGCTCTTCCGGTAGCGGC	480
Db	1178	CGTGGATCTCGGATCTCGGTACGCTCTTCCGACATGGGCTCTTCCGGTAGCGGC	1237
Qy	421	GGAGCTTCCACATCCGAGCCCTGTGTCCTCCAGCGGCTCATGTCGCTCGGAGC	480



MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/620,925  
FILING DATE: 21-Jul-2000  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/910,647  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Fujita, Sharon M.  
REGISTRATION NUMBER: 38,459  
REFERENCE/DOCKET NUMBER: 1218.002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 923-2706  
TELEFAX: (510) 655-3542  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 5107 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
US-09-620-925-3  
Query Match 99.2%; Score 827.6; DB 4; Length 5107;  
Best Local Similarity 99.5%; Pred. No. 1.6e-266;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
QY 1 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG 60  
DB 818 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG 877  
QY 61 TTTTGGCTTGGGGCTATACACCCCGCTCTTATGCTATAGTGTATAGCTTAG 120  
DB 878 TTTTGGCTTGGGGCTATACACCCCGCTCTTATGCTATAGTGTATAGCTTAG 937  
QY 121 CCTATAGTGTGGGTATTGACCACTATTGACCACTCCCTTATGGTGACCATCTTTCC 180  
DB 938 CCTATAGTGTGGGTATTGACCACTATTGACCACTCCCTTATGGTGACCATCTTTCC 997  
QY 181 ATTACTAATCCATAACATGGCTCTTTGGCAACACTCTCTATTTGGCTATATGCCAATAC 240  
DB 998 ATTACTAATCCATAACATGGCTCTTTGGCAACACTCTCTATTTGGCTATATGCCAATAC 1057  
QY 241 TCTGTCTTCAGAGACTGACAGGACTCTGTATTTTACAGGATGGGGTCCATTTATTAT 300  
DB 1058 TCTGTCTTCAGAGACTGACAGGACTCTGTATTTTACAGGATGGGGTCCATTTATTAT 1117  
QY 301 TTACAAATTCACATATACAAACCGCGTCCCGGTGCGCGAGTTTATTAAACATAG 360  
DB 1118 TTACAAATTCACATATACAAACCGCGTCCCGGTGCGCGAGTTTATTAAACATAG 1177  
QY 361 CGTGGGATCTCGACATCTCGGGTAGGTCTCCGGACATGGGCTCTTCTCCGGTAGCGGC 420  
DB 1178 CGTGGGATCTCGACATCTCGGGTAGGTCTCCGGACATGGGCTCTTCTCCGGTAGCGGC 1237  
QY 421 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGTCGTCGGCAGC 480  
DB 1238 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGTCGTCGGCAGC 1297  
QY 481 TCCTTGCTCTTAACAGTGAGGCCAGCTTAGGCACACCAATGCCACACCAACCCAGT 540  
DB 1298 TCCTTGCTCTTAACAGTGAGGCCAGCTTAGGCACACCAATGCCACACCAACCCAGT 1357  
QY 541 GTGCCGCACAAAGCCGTGGGGTAGGTATGTCTGAAAATGAGCTCCGAGATTGGGCT 600  
DB 1358 GTGCCGCACAAAGCCGTGGGGTAGGTATGTCTGAAAATGAGCTCCGAGATTGGGCT 1417  
QY 601 CGCACCGTGACGAGATGGAAGACTTAAAGCGCGGACAGAGAGATGACGAGGCTGAG 660

DB 1418 CGCACCTGACGAGATGGAAGACTTAAAGGACGCGGACAGAGAGATCGAGGCTGAG 1477  
QY 661 TTGTTGTATTCTGATAAGAGTACAGAGTAACTCCCGTTGCGGTGCTGTTAAACGGTGAAG 720  
DB 1478 TTGTTGTATTCTGATAAGAGTACAGAGTAACTCCCGTTGCGGTGCTGTTAAACGGTGAAG 1537  
QY 721 GCAGTGTAGTCTGACGAGTACTCGTTGCTGCGCGCGGCCACACAGACATATAGCTGAC 780  
DB 1538 GCAGTGTAGTCTGACGAGTACTCGTTGCTGCGCGCGGCCACACAGACATATAGCTGAC 1597  
QY 781 AGACTAAACAGACTGTTCTTCCATGGGTCTTTTCTGAGTACCGTCTGTCGAC 834  
DB 1598 AGACTAAACAGACTGTTCTTCCATGGGTCTTTTCTGAGTACCGTCTGTCGAC 1651  
RESULT 11  
US-09-721-480-2  
Sequence 2, Application US/09721480  
Patent No. 6740323  
GENERAL INFORMATION:  
APPLICANT: Selby, Mark  
APPLICANT: Glazer, Edward  
APPLICANT: Houghton, Michael  
TITLE OF INVENTION: HBV/HCV VIRUS-LIKE PARTICLE  
FILE REFERENCE: PP01635.002  
CURRENT APPLICATION NUMBER: US/09/721,480  
CURRENT FILING DATE: 2000-11-22  
NUMBER OF SEQ ID NOS: 7  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 2  
LENGTH: 5128  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: plasmid  
NAME/KEY: CDS  
LOCATION: (1988) .. (2830)  
US-09-721-480-2  
Query Match 99.2%; Score 827.6; DB 4; Length 5128;  
Best Local Similarity 99.5%; Pred. No. 1.6e-266;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
QY 1 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG 60  
DB 1144 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG 1203  
QY 61 TTTTGGCTTGGGGCTATACACCCCGCTCTTATGCTATAGTGTATAGCTTAG 120  
DB 1204 TTTTGGCTTGGGGCTATACACCCCGCTCTTATGCTATAGTGTATAGCTTAG 1263  
QY 121 CCTATAGTGTGGGTATTGACCACTATTGACCACTCCCTTATGGTGACGATCTTTCC 180  
DB 1264 CCTATAGTGTGGGTATTGACCACTATTGACCACTCCCTTATGGTGACGATCTTTCC 1323  
QY 181 ATTACTAATCCATAACATGGCTCTTTGCCAACAATCTCTATTTGGCTATATGCCAATAC 240  
DB 1324 ATTACTAATCCATAACATGGCTCTTTGCCAACAATCTCTATTTGGCTATATGCCAATAC 1383  
QY 241 TCTGTCTTCAGAGACTGACACGAGCTGTATTTTACAGGATGGGGTCCATTTATTAT 300  
DB 1384 TCTGTCTTCAGAGACTGACACGAGCTGTATTTTACAGGATGGGGTCCATTTATTAT 1443  
QY 301 TTACAAATTCACATATACAAACCGCGTCCCGGTGCGCGAGTTTATTAAACATAG 360  
DB 1444 TTACAAATTCACATATACAAACCGCGTCCCGGTGCGCGAGTTTATTAAACATAG 1503  
QY 361 CGTGGGATCTCGACATCTCGGGTAGGTATGTCTCCGACATGGGCTCTTCTCCGGTAGCGGC 420  
DB 1504 CGTGGGATCTCGACATCTCGGGTAGGTATGTCTCCGACATGGGCTCTTCTCCGGTAGCGGC 1563

Qy	421	GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTTCCAGCGGCTCATGGTCGCTCGGCAGC	480
Db	1564	GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTTCCAGCGGCTCATGGTCGCTCGGCAGC	1623
Qy	481	TCCTTTGCTCTTAACAGTGGAGGCAGACTTAGGCACAGCACAATGCCACCAACACACAGT	540
Db	1624	TCCTTTGCTCTTAACAGTGGAGGCAGACTTAGGCACAGCACAATGCCACCAACACACAGT	1683
Qy	541	GTGCCGCACAAGGCCGTGGCGGTAGGGTATGTGTCTGAAAATAGAGCTCGGAGATTGGGCT	600
Db	1684	GTGCCGCACAAGGCCGTGGCGGTAGGGTATGTGTCTGAAAATAGAGCTCGGAGATTGGGCT	1743
Qy	601	CGCACCGTGACGCAGATGGAAGACTTAAGGAGCGCGGAGAGAAGAAGATGCAGGCGAGCTGAG	660
Db	1744	CGCACCTGGGACGCAGATGGAAGACTTAAGGAGCGCGGAGAGAAGAAGATGCAGGCGAGCTGAG	1803
Qy	661	TTGTTGTATTCTGATAAGATCGAGAGTAACTCCCGTTGCGGTCTGTTAAACGGTGGAGG	720
Db	1804	TTGTTGTATTCTGATAAGATCGAGAGTAACTCCCGTTGCGGTCTGTTAAACGGTGGAGG	1863
Qy	721	GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCGGCCACAGACATAATAGCTGAC	780
Db	1864	GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCGGCCACAGACATAATAGCTGAC	1923
Qy	781	AGACTAAACAGATGTTCTTTTCCATGGGTCTTTTCTCAGGTCACCGTCGTCGAC	834
Db	1924	AGACTAAACAGATGTTCTTTTCCATGGGTCTTTTCTCAGGTCACCGTCGTCGAC	1977

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RESULT 12
US-09-721-480-4
; Sequence 4, Application US/09721480
; Patent No. 6740323
; GENERAL INFORMATION:
; APPLICANT: Selby, Mark
; APPLICANT: Glazer, Edward
; APPLICANT: Houghton, Michael
; TITLE OF INVENTION: HBV/HCV VIRUS-LIKE PARTICLE
; FILE REFERENCE: PP01635.002
; CURRENT APPLICATION NUMBER: US/09/721,480
; CURRENT FILING DATE: 2000-11-22
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 5459
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: pCMVII opti
; OTHER INFORMATION: 330 EI/SAg
; NAME/KEY: CDS
; LOCATION: (1992)..(3161)
US-09-721-480-4

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	Query Match	99.2%	Score	827.6;	DB 4;	Length	5459;	
	Best Local Similarity	99.5%;	Pred. No.	1.7e-366;				
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Dd	1144	GTAAGTACCOCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCAATGCTACTG	1203					
QY	61	TTTTTTGGCTTGGGCCCTATACACCCCGCTCCTTATGCTATAGGTGATGCTATAGCTTAG	120					
Dd	1204	TTTTTTGGCTTGGGCCCTATACACCCCGCTCCTTATGCTATAGGTGATGCTATAGCTTAG	1263					
QY	121	CCTATAGGTGTGGTATTGACCACTATTGACCACTCCCCTATTGGTGACGACTTTTC	180					
Dd	1264	CCTATAGGTGTGGTATTGACCACTATTGACCACTCCCCTATTGGTGACGACTTTTC	1323					
QY	181	ATPACTAATCCATAACATGGCTCTTTGGCCAACAATCTCTCTATTGGCTATATGCCAATAC	240					
Dd	1324	ATPACTAATCCATAACATGGCTCTTTGGCCAACAATCTCTATTGGCTATATGCCAATAC	1383					

Qy	241	TCGTCTCTTCAGAGACTGACACGGACTCTGTATTTTATACAGATGGGGTCCATTTATTAT	300
Db	1384	TCGTCTCTTCAGAGACTGACACGGACTCTGTATTTTATACAGATGGGGTCCATTTATTAT	1443
Qy	301	TTACAAATTCACATATACAAACGCGCTCCCGGTGCGCGCAGTTTTTATTTAAACATAG	360
Db	1444	TTACAAATTCACATATACAAACGCGCTCCCGGTGCGCGCAGTTTTTATTTAAACATAG	1503
Qy	361	CGTGGGATCTCCGACATCTCGGGTAGCTGTTCCGGACATGGGGCTCTTCTCCGGTAGCGGC	420
Db	1504	CGTGGGATCTCCGACATCTCGGGTAGCTGTTCCGGACATGGGGCTCTTCTCCGGTAGCGGC	1563
Qy	421	GGAGCTTCACATCCGAGGCCCTGGTCCCATGCTCCAGCGGCTCATGGTCGCTCGGCAGC	480
Db	1564	GGAGCTTCCACATCCGAGGCCCTGGTCCCATGCTCCAGCGGCTCATGGTCGCTCGGCAGC	1623
Qy	481	TCCTTGCTCTCTAAACAGTGGAGGCAGACTTGGACACAGACAAATGCCACCAACCCAGT	540
Db	1624	TCCTTGCTCTCTAAACAGTGGAGGCAGACTTGGACACAGACAAATGCCACCAACCCAGT	1683
Qy	541	GTGCGGCACAAGGCCGTGGCGGTAGGTATGTGTCTGAAATGAGCTCGGAGATTGGGCT	600
Db	1684	GTGCGGCACAAGGCCGTGGCGGTAGGTATGTGTCTGAAATGAGCTCGGAGATTGGGCT	1743
Qy	601	CGCACCGTAGCGCAGATGGAAGACTTAAGGACGGGACGAAGAAGATGCAGGCAGCTGAG	660
Db	1744	CGCACCTGGACGCAGATGGAAGACTTAAGGACGGGACGAAGAAGATGCAGGCAGCTGAG	1803
Qy	661	TTGTGTGATTCTCATAGAGTCAGAGTAACCTCCGTTGGGTGCTGTTAAACGGTGGAGG	720
Db	1804	TTGTGTGATTCTCATAGAGTCAGAGTAACCTCCGTTGGGTGCTGTTAAACGGTGGAGG	1863
Qy	721	GCAGTGTAGTCTCAGCAGTACTCGTTGCTGCCCGCGCGCCACACAGACATAATAGCTGAC	780
Db	1864	GCAGTGTAGTCTCAGCAGTACTCGTTGCTGCCCGCGCGCCACACAGACATAATAGCTGAC	1923
Qy	781	AGACTAACAGACTGTTCTTTTCCATGGGCTTTTCTGCACTACCGTCGTCGAC	834
Db	1924	AGACTAACAGACTGTTCTTTTCCATGGGCTTTTCTGCACTACCGTCGTCGAC	1977

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RESULT 13
US-09-721-480-6
; Sequence 6, Application US/09721480
; Patent No. 6740323
; GENERAL INFORMATION:
; APPLICANT: Selby, Mark
; APPLICANT: Glazer, Edward
; APPLICANT: Houghton, Michael
; TITLE OF INVENTION: HBV/HCV VIRUS-LIKE PARTICLE
; FILE REFERENCE: PP01635.002
; CURRENT APPLICATION NUMBER: US/09/721, 480
; CURRENT FILING DATE: 2000-11-22
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn ver. 2.0
; SEQ ID NO 6
; LENGTH: 5882
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: plasmid
; OTHER INFORMATION: pCMV-II-E2661-sag
; NAME/KEY: CDS
; LOCATION: (1992)..(3584)
; US-09-721-480-6

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Query Match      99.2%; Score 827.6; DB 4; Length 5882;
Best Local Similarity 99.5%; Pred. No. 1.8e-266;
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      1  GTAAGTACCGCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG 60
      |||||

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NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESS: Chiron Corporation  
STREET: 4560 Horton Street  
CITY: Emeryville  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 94608-2916  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/910,647  
FILING DATE:  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Fujita, Sharon M.  
REGISTRATION NUMBER: 38,459  
REFERENCE/DOCKET NUMBER: 1218.002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 923-2706  
TELEFAX: (510) 655-3542  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9600 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-910-647-1

Query Match 99.2%; Score 827.6; DB 3; Length 9600;  
Best Local Similarity 99.5%; Pred. No. 2.4e-266;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY	1	GTAAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATAGTG 60
DB	5920	GTAAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATAGTG 5979
QY	61	TTTTTGGCTTGGGGCTTATACACCCCGCTCCCTTATGCTATAGTATAGTATAGCTTAG 120
DB	5980	TTTTTGGCTTGGGGCTTATACACCCCGCTCCCTTATGCTATAGTATAGTATAGCTTAG 6039
QY	121	CTATAGGTGTGGGTTATTGACCACTATTGACCACTCCCTATTGGTGACGATACTTTCC 180
DB	6040	CCTATAGGTGTGGGTTATTGACCACTATTGACCACTCCCTATTGGTGACGATACTTTCC 6099
QY	181	ATTACTAATCCATAACATGGCTCTTTGGCAACACTATCTATTTGGCTATATGCCAATAC 240
DB	6100	ATTACTAATCCATAACATGGCTCTTTGGCAACACTATCTATTTGGCTATATGCCAATAC 6159
QY	241	TCGTCTCTTCAGAGACTTGACACGGACTCTGTATTTTACAGGATGGGTCCATTATTAT 300
DB	6160	TCGTCTCTTCAGAGACTTGACACGGACTCTGTATTTTACAGGATGGGTCCATTATTAT 6219
QY	301	TTACAAATTACATATACAAACGCGCTCCCGCTCCCGCGCAGTTTTTTATTAACATAG 360
DB	6220	TTACAAATTACATATACAAACGCGCTCCCGCTCCCGCGCAGTTTTTTATTAACATAG 6279
QY	361	CGTGGGATCTCCGACATCTCGGTAGTGTTCGGACATGGGCTCTTCTCCGGTAGCGGC 420
DB	6280	CGTGGGATCTCCGACATCTCGGTAGTGTTCGGACATGGGCTCTTCTCCGGTAGCGGC 6339
QY	421	GGAGCTTCCACATCCGAGCCCTCGTCCCATGCTCCAGGGCTCATGCTCGCTCGGCAGC 480
DB	6340	GGAGCTTCCACATCCGAGCCCTCGTCCCATGCTCCAGGGCTCATGCTCGCTCGGCAGC 6399
QY	481	TCCTTCTCTTAACAGTGGAGGCCAGACTTAGGCACAGCACATAGCCACACCACTAGT 540
DB	6400	TCCTTCTCTTAACAGTGGAGGCCAGACTTAGGCACAGCACATAGCCACACCACTAGT 6459

QY	541	GTCCCGCACAGGCCCGTAGGGTATGTCTCTGAATAAGCTCGAGATTTGGGCT 600
DB	6460	GTCCCGCACAGGCCCGTAGGGTATGTCTCTGAATAAGCTCGAGATTTGGGCT 6519
QY	601	CGCACCGTGACCGCAGATGGAAGACTTTAAGCGACGCGCAGAGAAGATGCAGGCACTGAG 660
DB	6520	CGCACCGTGACCGCAGATGGAAGACTTTAAGCGACGCGCAGAGAAGATGCAGGCACTGAG 6579
QY	661	TTGTTGTATTCTGATAAGAGTCAAGAGTAACTCCCGTTGCGGTGCTGTTTAAACGTTGAGG 720
DB	6580	TTGTTGTATTCTGATAAGAGTCAAGAGTAACTCCCGTTGCGGTGCTGTTTAAACGTTGAGG 6639
QY	721	GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCGCCACACACATATAAGCTGAC 780
DB	6640	GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCGCCACACACATATAAGCTGAC 6699
QY	781	AGACTAACAGACTGTTCTTCCATCGGCTCTTTCTGCACTCACCGTCGTCGAC 834
DB	6700	AGACTAACAGACTGTTCTTCCATCGGCTCTTTCTGCACTCACCGTCGTCGAC 6753

Search completed: December 20, 2004, 13:50:35  
Job time : 82.9835 secs

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